

# HiLumi LHC

FP7 High Luminosity Large Hadron Collider Design Study

## Deliverable Report

# Final Plan for Use and Dissemination of Foreground

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17 December 2015



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# HiLumi LHC

FP7 High Luminosity Large Hadron Collider Design Study  
Seventh Framework Programme, Capacities Specific Programme, Research  
Infrastructures, Collaborative Project

## DELIVERABLE REPORT

### FINAL PLAN FOR USE AND DISSEMINATION OF FOREGROUND

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The HiLumi LHC Design Study is included in the High Luminosity LHC project and is partly funded by the European Commission within the Framework Programme 7 Capacities Specific Programme, Grant Agreement 284404. HiLumi LHC began in November 2011 and will run for 4 years.

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**Delivery Slip**

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## 1. SECTION A: DISSEMINATION MEASURES (PUBLIC)

### 1.1. LIST OF SCIENTIFIC (PEER-REVIEWED) PUBLICATIONS

Below you can find Table A1: list of scientific peer-reviewed publications. In total the project generated 41 peer-reviewed publications. Table A2 can be found in Annex I. Up to date (15 December 2015), 357 dissemination activities were accounted for as a result of the project.

Table A1: List of scientific (peer reviewed) publications										
No	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages	Permanent identifiers <sup>1</sup> (if available)	Is/Will open access <sup>2</sup> provided to this publication?
1	Response of colliding beam-beam system to harmonic excitation due to crab-cavity rf phase modulation	Ohmi, K (KEK, Tsukuba) et al	Physical Review Special Topics - Accelerators And Beams	Volume 14, n. 11	APS Physics	USA	2011	111003	<a href="#">CDS Link</a>	Yes
2	Simulations of Electron-Cloud Heat Load for the Cold Arcs of the CERN Large Hadron Collider and Its High-Luminosity Upgrade Scenarios	Maury Cuna, H. et al	Physical Review Special Topics - Accelerators And Beams	Volume 15, N. 5	APS Physics	USA	2012	051001	<a href="#">CDS Link</a>	Yes
3	Cryogenic test of a proof-of-principle superconducting rf-dipole deflecting and crabbing cavity	De Silva S. et al	Physical Review Special Topics - Accelerators And Beams	Volume 16, N. 8	APS Physics	USA	2013	082001	<a href="#">Link</a>	Yes
4	Achromatic Telescopic Squeezing Scheme and	Fartoukh, S. ET AL	Physical Review Special Topics -	Volume 16, N. 11	APS Physics	USA	2013	111002	<a href="#">CDS Link</a>	Yes

<sup>1</sup> A permanent identifier should be a persistent link to the published version full text if open access or abstract if article is pay per view) or to the final manuscript accepted for publication (link to article in repository).

<sup>2</sup> Open Access is defined as free of charge access for anyone via Internet. Please answer "yes" if the open access to the publication is already established and also if the embargo period for open access is not yet over but you intend to establish open access afterwards.

	Application to the LHC and Its Luminosity Upgrade		Accelerators And Beams							
5	DAFNE Operation with Electron-Cloud-Clearing Electrodes	Alesini D. (CERN) et al	Physical Review Letters	Volume 11, No. 12	APS Physics	USA	2013	124801	<a href="#">Link</a>	Yes
6	Design Studies for the Low-Beta Quadrupoles for the LHC Luminosity Upgrade	Todesco, E. (CERN) et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4002405	<a href="#">CDS Link</a>	Yes
7	Design of a Large Single-Aperture Dipole Magnet for HL-LHC Upgrade	Qingjin, X. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4001305	<a href="#">Link</a>	Yes
8	Testing Results for Nb-Ti, 120-mm-Aperture, Low-B Quadrupole Models for the LHC High-Luminosity Insertion	Kirby, G. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4002105	<a href="#">CDS Link</a>	Yes
9	Cold Test Results of the LARP HQ Nb3Sn Quadrupole Magnet at 1.9 K	Bajas, H et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4002606	<a href="#">CDS Link</a>	Yes
10	Critical current and stability of MgB2 Twisted-Pair DC cable assembly cooled by helium gas	Yifeng Y. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4801204	<a href="#">Link</a>	Yes
11	Quench Protection Study of a Single-Aperture 11 T Nb3Sn Demonstrator Dipole for LHC Upgrades	Chlachidze, G. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4001205	<a href="#">CDS Link</a>	Yes
12	Field Quality Measurements in a Single-Aperture 11 T Nb3Sn Demonstrator Dipole for LHC Upgrades	Andreev, N. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4001804	<a href="#">CDS Link</a>	Yes
13	Development and Test of a Single-Aperture 11 T Nb3Sn Demonstrator Dipole for LHC Upgrades	Zlobin, A. et al	IEEE Transactions on Applied Superconductivity	Volume 23, N. 3	IEEE	USA	2013	4000904	<a href="#">Link</a>	Yes

14	A First Baseline for the Magnets in the High Luminosity LHC Insertion Regions	Todesco, E. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4003305	<a href="#">CDS Link</a>	Yes
15	Magnet Design of the 150 mm Aperture Low-beta Quadrupoles for the High Luminosity LHC	Ferracin, P. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4002306	<a href="#">CDS Link</a>	Yes
16	LHC IR Upgrade Nb-Ti, 120mm Aperture Model Quadrupole Test Results at 1.9 K	Kirby, GA. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4002405	<a href="#">CDS Link</a>	Yes
17	Quench Performance of a 1 m Long Single-Aperture 11 T Nb <sub>3</sub> Sn Dipole Model for LHC Upgrades	Zlobin, A. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4000305	<a href="#">Link</a>	Yes
18	Quench Protection Study of the Nb <sub>3</sub> Sn Low- $\beta$ Quadrupole for the LHC Luminosity Upgrade (HiLumi-LHC)	Manfreda, G. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4700405	<a href="#">Link</a>	Yes
19	Multipoles Induced by Inter-Strand Coupling Currents in LARP Nb <sub>3</sub> Sn Quadrupoles	Wang, X. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4002607	<a href="#">Link</a>	Yes
20	Magnetic Design Optimization of a 150 mm Aperture Nb <sub>3</sub> Sn Low-Beta Quadrupole for the HiLumi LHC	Borgnolutti, F. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4000405	<a href="#">CDS Link</a>	Yes
21	Field Quality Measurements of LARP Nb <sub>3</sub> Sn Magnet HQ02	DiMarco, J. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4003905	<a href="#">CDS Link</a>	Yes
22	Design of a 150-mm Coil Support Structure With Accelerator Integration Features for LARP Nb <sub>3</sub> Sn Quadrupole Magnets	Cozzolino, J. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4003704	<a href="#">CDS Link</a>	Yes

23	Design Optimization of the New D1 Dipole for HL-LHC Upgrade	Xu, Q. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4000104	<a href="#">CDS Link</a>	Yes
24	Deduction of Steady-State Cable Quench Limits for Various Electrical Insulation Schemes with Application to LHC and HL-LHC Magnets	Granieri, P. et al	IEEE Transactions on Applied Superconductivity	Volume 24 No. 3	IEEE	USA	2014	4802806	<a href="#">CDS Link</a>	Yes
25	Development of superconducting links for the Large Hadron Collider machine	Ballarino, A.	Superconductor Science and Technology	Volume 27, No. 4	IOP Publishing	UK	2014	044024	<a href="#">CDS Link</a>	Yes
26	Simulations of fast crab cavity failures in the high luminosity Large Hadron Collider	Yee-Rendon, B. et al	Physical Review Special Topics - Accelerators And Beams	Volume 17, N. 5	APS Physics	USA	2014	051001	<a href="#">CDS Link</a>	Yes
27	Pile up management at the high-luminosity LHC and introduction to the crab-kissing concept	Fartoukh, S.	Physical Review Special Topics - Accelerators And Beams	Volume 17, N. 11	APS Physics	USA	2014	111001	<a href="#">CDS Link</a>	Yes
28	Characterization of Mechanical Properties of MgB2 conductor for the Superconducting Link Project at CERN	Sugano, M. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4801004	<a href="#">Link</a>	Yes
29	Coil End Optimization of the Nb3Sn Quadrupole for the High Luminosity LHC	Izquierdo, S. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4001504	<a href="#">CDS Link</a>	Yes
30	Support Structure Design of the Nb3Sn Quadrupole for the High Luminosity LHC	Juchno, M. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4001804	<a href="#">Link</a>	Yes
31	Test Results of the LARP HQ02b Magnet at 1.9 K	Bajas, H. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4003306	<a href="#">CDS Link</a>	Yes



32	Model Magnet Development of D1 Beam Separation Dipole for the HL-LHC Upgrade	Nakamoto, T. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4000505	<a href="#">Link</a>	Yes
33	NbTi Superferric Corrector Magnets for the LHC Luminosity Upgrade'	Volpini, G. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4002605	<a href="#">Link</a>	Yes
34	A Nb-Ti 90 mm Double-aperture Quadrupole for the High Luminosity LHC Upgrade	Segreti, M. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4001905	<a href="#">Link</a>	Yes
35	Quench Property of Twisted-Pair MgB2 Superconducting Cables in Helium Gas	Spurrell, J. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	6200105	<a href="#">Link</a>	Yes
36	Support Structure Design of the Nb3Sn Quadrupole for the High Luminosity LHC	Juchno, M. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4001804	<a href="#">Link</a>	Yes
37	Study of Quench Protection for the Nb3Sn Low- $\beta$ Quadrupole for the LHC Luminosity Upgrade (HiLumi-LHC)	Todesco, E (CERN) et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4002905	<a href="#">CDS Link</a>	Yes
38	Quench Propagation in Nb3Sn Rutherford Cables for the Hi-Lumi Quadrupole Magnets	Fleiter, J. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4802504	<a href="#">Link</a>	Yes
39	Nb3Sn High Field Magnets for the High Luminosity LHC Upgrade Project	Volpini, G. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4002107	<a href="#">Link</a>	Yes
40	Field Quality and Mechanical Analysis of the Beam Separation Dipole for HL-LHC Upgrade	Sugano, M. et al	IEEE Transactions on Applied Superconductivity	Volume 25, N. 3	IEEE	USA	2015	4001105	<a href="#">Link</a>	Yes
41	Prototyping, and testing of a compact superconducting double quarter wave crab cavity	Xiao, B. et al	Physical Review Special Topics - Accelerators And Beams	Volume 18, N. 4	APS Physics	USA	2015	041004	<a href="#">Link</a>	Yes

## 2. SECTION B: EXPLOITABLE FOREGROUND

### 2.1. LIST OF APPLICATIONS FOR PATENTS

<b>Template B1: List of applications for patents, trademarks, registered designs, etc.</b>						
<b>Type of IP Rights: Patents, Trademarks, Registered designs, Utility models, Others</b>	<b>Confidential (yes, no)</b>	<b>Foreseen embargo date dd/mm/yyyy</b>	<b>Application reference(s) (e.g. EP123456)</b>	<b>Subject or title of application</b>	<b>Applicant(s) (as on the application)</b>	<b>Intellectual property Organization</b>
Patent	No	N/A	WO2014207130	AC-Current Induced Quench Protection System	CERN	EPO
Patent	Yes	10/06/2016	14197216.6	Closed Cycle Cryogen Recirculation System and Method	CERN	EPO
Patent	No	N/A	WO2015062657	A molybdenum carbide / carbon composite and manufacturing method	CERN, Brevetti Bizz	EPO
Patent	Yes	03/03/2017	15179513.5	Continuously transposed conducting cable	CERN	EPO

## 2.2. EXPLOITABLE FOREGROUND

<b>Table B2: Exploitable foreground</b>									
<b>Foreground Number</b>	<b>Type of Exploitable Foreground<sup>3</sup></b>	<b>Description of exploitable foreground</b>	<b>Confidential (yes, no)</b>	<b>Foreseen embargo date dd/mm/yyyy</b>	<b>Exploitable product(s) or measure(s)</b>	<b>Sector(s) of application<sup>4</sup></b>	<b>Timetable for commercial or any other use</b>	<b>Patents or other IPR exploitation (licences)</b>	<b>Owner &amp; Other Beneficiary(s) involved</b>
1.1	Exploitation of R&D results via standards	Component Standards and QA for in-kind contribution	No	N/A	QA documentation	Scientific research and development	Now	--	CERN, UK Universities and STFC, INFN, CEA, KEK
1.2	General advancement of knowledge	Radioprotection Studies in highly activated areas	No	N/A	International network of ITHACA, radiation safety studies	Scientific research and development	Now	--	CERN
1.3	General advancement of knowledge	New Collaboration Model for HiLumi construction phase	No	N/A	Number of in-kind contribution, Collaboration Agreements	Scientific research and development	Now	--	CERN
1.4	General advancement of knowledge	Presentation of HiLumi and Particle Physics to general public	No	N/A	Database of HiLumi outreach talks	Scientific research and development and Cultural Education	Now	--	CERN
2.1	General advancement of knowledge	Field Quality for high field magnets	No	N/A	Parameter list for the HL-LHC machine	Scientific research and development	Now	--	CERN

<sup>3</sup> Type of foreground: General advancement of knowledge, Commercial exploitation of R&D results, Exploitation of R&D results via standards, exploitation of results through EU policies, exploitation of results through (social) innovation.

<sup>4</sup> Type of sector (NACE nomenclature): [http://ec.europa.eu/competition/mergers/cases/index/nace\\_all.html](http://ec.europa.eu/competition/mergers/cases/index/nace_all.html)

					and new optics design				
2.2	General advancement of knowledge	Beam-Beam effects	No	N/A	Study report	Scientific research and development	Now	--	CERN
2.3	General advancement of knowledge	ATS Scheme	No	N/A	New optics design	Scientific research and development	Now	--	CERN
2.4	General advancement of knowledge	Crab-kissing scheme	No	N/A	Scientific report	Scientific research and development	Medium Term	--	CERN
3.1	General advancement of knowledge	Design of Nb3Sn collider magnets	No	N/A	First hardware model	Scientific research and development	Now	--	CERN, associated US laboratories (LARP)
3.2	General advancement of knowledge	Magnet cooling studies	No	N/A	Report on study	Scientific research and development	Medium & Long Term	--	CERN, associated US laboratories (LARP)
3.3	General advancement of knowledge	Superferric corrector magnets	No	N/A	Hardware models and scientific publication	Scientific research and development	Medium & Long Term	--	INFN, CERN, CEA, CIEMAT
4.1	General advancement of knowledge	Compact crab cavity design	No	N/A	Hardware models and scientific publication	Scientific research and development	Medium & Long Term	--	CERN, associated US laboratories (LARP), KEK
4.2	General advancement of knowledge	Complete cryomodule design and construction for SPS	No	N/A	Engineering design and scientific publication	Scientific research and development	Medium Term	--	CERN, associated US laboratories (LARP), KEK
5.1	General advancement of knowledge	Energy deposition by radiation	No	N/A	High energy density impact test and	Scientific research and development	Short & Medium Term	--	CERN

					scientific publication				
5.2	General advancement of knowledge	Beam halo Studies for Dispersion Suppressor	No	N/A	Report on studies	Scientific research and development	Short, Medium & Long Term	--	CERN
6.1	Commercial exploitation of R&D results	Development of high quality round wires of MgB2	No	N/A	Publications and first industrial production	Scientific research and development, Electric Power Generation, Transmission and Distribution	Short, Medium & Long Term	--	CERN
6.2	Commercial exploitation of R&D results	Development of a Superconducting Link system	No	N/A	Publication and hardware model	Scientific research and development, Electric Power Generation, Transmission and Distribution	Short, Medium & Long Term	--	CERN

In the following table, we summarize for a selection of major foreground topics, relevant information under the headings requested by the Commission. This table and Table B2 are indexed by a foreground number [“WP#.#”].

<b>Foreground no.</b>	<b>Its purpose</b>	<b>How the foreground might be exploited, when and by whom</b>	<b>IPR exploitable measures taken or intended</b>	<b>Further research necessary, if any</b>	<b>Potential/expected impact (quantify where possible)</b>
1.1	In HiLumi some critical components are designed and manufactured by non-CERN Member State collaborators. Assuring a coherent QA and best engineering practice is critical, and the use of national/regional standards is also critical for keeping cost low without compromising quality.	HL-LHC is the first large accelerator project where the common QA and the exchange on best practices are built-in from the beginning of the construction phase. All Institutes will learn how to collaborate in a way that guarantees quality without increasing cost. Industry will also learn from the exercise. All HL-LHC beneficiaries, FCC (EuroCirCol) members will benefit from this.	Open	The system put in place for HiLumi needs to be tested up to the end and then compared with systems of other large projects, like ITER, ESS, etc.	A coherent European accelerator community operating a “distributed” laboratory, including CERN, including national labs, universities and specialized institutes
1.2	Applying ALARA (As Low As Reasonable Achievable, a radiation safety principle for minimizing doses and releases) principle at an early stage of design will have a better impact on what happens at late stage of the project (e.g. assessing the dose for people intervening on the HiLumi machine).	It will be exploited by HL-LHC. The foreground is triggering the use of a new system at CERN (remote handling, remote survey, augmented reality) and is considered for FCC and CLIC and other High intensity accelerators.	Open	The use of remote handling suitable for large superconducting magnets needs further development and augmented reality needs to enter in the culture of maintenance for HL-LHC.	Less dose to personnel involved in maintenance and increase in machine availability.
1.3	Enable the HiLumi project to be built in a true collaborative way, making the best use not only of the resources but also of the intellectual contribution of external Institutes.	It is being exploited already by HL-LHC and in perspective by future large projects like FCC or any future accelerator done in collaborative manner.	Open	Assess sustainability of the model during the project evolution.	Transforming the model of accelerator construction toward a collaborative effort from its conception.
1.4	Via HiLumi results, to publicize the strong technological impact of basic	The database of outreach talks from HiLumi members, collected	Open	N/A	Make it clear for the policy makers and the public that basic

	research while making aware of the intrinsic value increase of basic science.	in CDS are available for schools professors, and other education operators to be freely used and adapted at courses for pupils and students of different background and age.			research, and Higgs boson discovery, rely on technologies beyond the state-of-the-art, with very significant spin-off to society.
2.1	Determine a set of Field Quality targets valid for new generation superconducting magnets (Nb3Sn) with higher field than the one in LHC.	The next generation of accelerators will rely on this work for optics design, since HL-LHC is the first accelerator using Nb3Sn. It might be exploited by FCC, the Chinese electron-proton / hh collider (CEPC-hh). EuCARD-2 is also considering benefitting from it.	Open	Make sure that the values can be maintained during construction and devise mitigation measure of the Field Quality.	Release field quality targets to lower value may have a big impact on the magnet cost with potential large savings in large accelerators.
2.2	Intense beam collider with high luminosity have strong beam-beam interaction, strongly influencing stability.	Exploited by LHC already now and in perspective exploitable by any large hadron colliders, making beam-beam as part of the initial design. It will be exploited by HL-LHC, FCC and any intense beam collider, like the CEPC-hh.	Open	To verify if the measures taken under HiLumi to compensate the beam-beam are successful.	Strong impact on HiLumi luminosity regime and on FCC design.
2.3	ATS improves dramatically the luminosity performance in any circular collider. In HiLumi it makes possible exploiting the large aperture offered by Nb3Sn.	HiLumi will use it in all its life, but is likeable that present LHC will also exploit it. BNL is considering applying ATS for RHIC. It can be exploited by FCC, EuCARD2 and any high luminosity circular colliders.	Open	Verify ATS viability in machine with real imperfection and that is not endangering machine protection.	ATS may enhance the luminosity of any hadron collider by a factor 2-3. FCC design may depend critically on it.
2.4	To enhance effective luminosity. It will improve the quality of data taking of the experiments.	HL-LHC may use it in all its life, but is likeable that present LHC will also exploit it. It is potentially interesting for FCC as well.	Open	It is not included in the baseline as it still requires machine development (MD) studies to experimentally prove the soundness of the theory.	It may enhance the effective luminosity by decreasing the pile up density by a factor of 2.

3.1	Nb3Sn magnets are needed for larger apertures and higher field, strongly increasing the performance of accelerators.	The foreground will be exploited by the HL-LHC project now and in the next decade. Nb3Sn will be used in future large accelerators (FCC, CEPC-hh...). It might be also exploited in relation to medical accelerators, NMR, MRI.	open	Check that long prototypes behave as good as short models.	This foreground is the technological proof necessary for FCC and/or any other hadron colliders beyond LHC, so it will have a large impact on particle physics.
3.2	Cooling has a large influence on performance and cost of superconducting accelerators (choice between HEII, or supercritical He or saturated He)	Using the results of the project, HL-LHC magnets and new cryogenics plant are being designed. The study is being used also by FCC (Eurocircle) for cryogenic/field optimization. It might be also exploited in relation to medical accelerators, NMR, MRI.	open	N/A	Impact on HL-LHC and FCC infrastructure and potentially on CEPC-hh), as well as on performance (luminosity for HL-LHC and energy reach or tunnel length for FCC)
3.3	Design of compact corrector magnets of sharp edge effects, robust in high radiation environment and with negligible power consumption.	HL-LHC is based on this foreground that can possibly be used also for FCC and nuclear physics accelerators, as well as medical accelerators	open	Test of a prototype of each high order magnets (quadrupole, sextupole, etc..)	The accelerator interaction regions become shorter and more efficient and less expensive. Future accelerators (FCC, CEPC-hh but also smaller ones) will also use this feature.
4.1	Crab cavity is a new device that is able to manipulate transversally beams at tens of fs level and therefore can increase luminosity by compensating the crossing angle.	This object is already part of the HL-LHC baseline. It will also be used for electron linear colliders, ILC and CLIC	open	Carry out Crab cavity test on hadron beam in the SPS	Increase integrated luminosity in any future accelerators.
4.2	Given the absolute novelty of Crab Cavity, a test in the SPS is necessary to assess their actual behaviour. For these tests a complete system with cryo-module including all cryogenics and RF service, is needed.	HL-LHC and LARP in 2018. It might be used for electron linear colliders, ILC and CLIC	open	Test of cryo-module in the cryogenic test facility (at CERN or Uppsala)	Enable the use of Crab cavity. Open the way for use this device routinely in future accelerators such as FCC and CEPC-hh.



5.1	Hilumi assessing the robustness of the collimator vs energy deposition by beam or by debris was critical regarding the correct design and choice of material. The robustness is coupled with low impedance material for which energy deposition studies are critical.	HL-LHC includes the robust collimator, low impedance, halo removal in the baseline. Also FCC or other hadron collider (FAIR-SIS300) could use it. Other potential benefiter are EuCARD2, FCC any other high intensity machine	open	Some mechanical and thermal tests remain to be done	Can be of relevance for any equipment facing severe irradiation, like frontier accelerators, nuclear reactors, tokamaks...
5.2	The halo studies have evidenced the need for collimation in the cold region (Dispersion Suppressor) of LHC	HL-LHC includes the robust collimator, low impedance, halo removal in the baseline. Also FCC or other hadron colliders (e.g. FAIR-SIS300) could use it. Other potential benefiter is EuCARD2	open	Two more years to demonstrate performance and integration with 11T dipole	Overcome limitation due to the diffraction limit in future accelerators.
6.1	The choice of MgB2 provides the lowest cost of the new superconductors: round wire is the best geometry for making superconducting cables for high currents and high temperature (>20K), necessary for the HiLumi SC links.	The SC Links are now included in the HL-LHC baseline design. Any future accelerator with large amperage at low temperatures will consider it. FCC or CEPC-hh. Electrical distribution companies are also already considering its exploitation.	open	Test of long cable prototypes	Beside large impact on accelerators there will be impact of medium field magnets for energy markets and on power transmission cable
6.2	To remove the power converter from the tunnel the cold powering needs a complete SC link system, where the cable functionality is integrated in the system (junctions, protection, current leads, their feedbox- cryostat, etc....)	SC link system is included in the HL-LHC baseline. FCC and other future accelerators will use these developments. Electrical distribution companies are also already considering the exploitation of the power transmission lines	open	Test of long powering system with SC links	Large impact can be foreseen on Transmission power cables, especially for renewable energy (solar farms and, off-shore Eolic parks need long transmission lines), so Electrical Distribution companies may strongly benefit by this.

### 3. ANNEX I: TABLE A2 - LIST OF DISSEMINATION ACTIVITIES

Template A2: Dissemination activities								
No	Type of activities <sup>5</sup>	Lead author (institute)	Title	Date/Period	Place	Type of audience <sup>6</sup>	Size of audience	Countries addressed
1 <a href="#">CDS Link</a>	Article/Misc	CERN Bulletin	EU supports the LHC high-luminosity study, <i>CERN Bulletin</i>	7 Nov 2011	Geneva, Switzerland	Scientific Community, Civil Society	--	International
2 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, un'impresa scientifica, un'avventura Umana	11 Nov 2011	Lecce, Italy	Civil Society	50	Italy
3 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Burov, A. (Fermilab)	Beam stability in LHC with crab cavities, <i>LHC-CC11 workshop</i>	14 Nov 2011	Geneva, Switzerland	Scientific Community		International
4 <a href="#">CDS Link</a>	Press release	CERN Press Office	CERN has 2020 vision for LHC upgrade	16 Nov 2011	Geneva, Switzerland	Civil Society, Scientific Community, Medias	--	International
5 <a href="#">Link</a>	Article /Misc	Phys.org	CERN has 2020 vision for LHC upgrade, <i>Phys.org</i>	16 Nov 2011	Geneva, Switzerland	Civil Society, Scientific Community	--	International
6 <a href="#">Link</a>	Article /Misc	Interactions.org	CERN has 2020 vision for LHC upgrade, <i>Interactions.org</i>	16 Nov 2011	Geneva, Switzerland	Civil Society, Scientific Community	--	International
7 <a href="#">CDS Link</a>	Article	Evans, R. (Reuters)	"Big Bang" machine to get huge upgrade in 2020, <i>Reuters</i>	17 Nov 2011	Geneva, Switzerland	Civil Society	--	International
8 <a href="#">CDS Link</a>	Article / Misc	Heuer, R. (CERN)	The LHC: a week for taking stock, pushing boundaries and for long-term planning	21 Nov 2011	Geneva, Switzerland	Scientific Community	--	International

<sup>5</sup> Dissemination activities: publications, conferences, workshops, web, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters, Other.

<sup>6</sup> Type of public: Scientific Community (higher education, Research), Industry, Civil Society, Policy makers, Medias, Other ('multiple choices' is possible).

<a href="#">9 CDS Link</a>	Article published in the popular press	Evans, R. (Reuters)	"Big Bang" Machine to Get Huge Upgrade in 2020, <i>Onislam</i> .	21 Nov 2011	Geneva, Switzerland	Civil Society	--	International
<a href="#">10 CDS Link</a>	Article / Misc	Sutton, C. (CERN)	IPAC'11 brings the world to San Sebastián, <i>CERN Courier</i>	23 Nov 2011	Geneva, Switzerland	Scientific Community	--	International
<a href="#">11 CDS Link</a>	Article / Misc	INFN LHC Italia	A LHC si guarda al futuro	24 Nov 2011	Geneva, Switzerland	Scientific Community	--	International
<a href="#">12 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC del CERN, la vista piu' profonda, <i>Congresso Nazionale SOI – Societa Italiana di Oftamologia</i>	24 Nov 2011	Milan, Italy	Scientific Community, Civil Society	100	Italy
<a href="#">13 CDS Link</a>	Article published in the popular press	--	Il CERN ha stanato il "bosone di Higgs", <i>Il giornale del popolo</i> .	14 Dec 2011	Lugano, Switzerland	Civil Society	--	Switzerland
<a href="#">14 CDS Link</a>	Article / Misc	Kahle, K.	HiLumi LHC begins	15 Dec 2011	Geneva, Switzerland	Scientific Community, Civil Society	--	International
<a href="#">15 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Domande e certezze nel mondo dei quark: il Large Hadron Collider (LHC) del CERN	19 Dec 2011	Pesaro, Italy	Civil Society	500	Italy
<a href="#">16 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Quando l'avventura della conoscenza diventa una grande impresa scientifica	20 Dec 2011	Pesaro, Italy	Civil Society	50	Italy
<a href="#">17 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Domande e certezze nel mondo dei quark: il Large Hadron Collider (LHC) del CERN	20 Jan 2012	Varese, Italy	Civil Society	50	Italy
<a href="#">18 CDS Link</a>	Article / Misc	CERN Courier	Meeting sets scene for LHC-luminosity upgrade, <i>CERN Courier</i>	25 Jan 2012	Geneva, Switzerland	Scientific Community	--	International
<a href="#">19 CDS Link</a>	Article / Misc	CERN Bulletin	4th report from the LHC performance workshop, <i>CERN Bulletin</i>	6 Feb 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
<a href="#">20 CDS Link</a>	Article / Misc	O'Luanaigh, C. (CERN)	Chamonix: Challenges for the High Luminosity LHC	6 Feb 2012	Geneva, Switzerland	Scientific Community	--	International
<a href="#">21 CDS Link</a>	Paper in proceedings of a	Calaga, R. (CERN)	Crab Cavities for the LHC Upgrade, <i>Proceedings of Chamonix 2012 workshop on</i>	6 Feb 2012	Geneva, Switzerland	Scientific Community	--	International

	Conference/ Workshop		<i>LHC Performance, Chamonix, France, 6-10 Feb 2012, pp. 363.</i>					
22 <a href="#">Link</a>	Paper in proceedings of a Conference/ Workshop	Brunning, O. (CERN) et al	HL-LHC Parameter Space and Scenarios, <i>Proceedings of Chamonix 2012 workshop on LHC Performance, Chamonix, France, 6-10 Feb 2012, pp. 315.</i>	6 Feb 2012	Chamonix, France	Scientific Community	--	International
23 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Rossi, L. (CERN) et al	Summary of Session 9 "LHC-related Projects and Studies (II)", <i>Proceedings of Chamonix 2012 workshop on LHC Performance, Chamonix, France, 6-10 Feb 2012</i>	6 Feb 2012	Chamonix, France	Scientific Community	--	International
24 <a href="#">CDS Link</a>	Article / Misc	Kahle, K. (CERN) et al	Designs on higher luminosity, <i>CERN Courier</i>	23 Feb 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
25 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Gewissheit über Dinge, die wir noch nie gesehen haben	2 Mar 2012	Cologne, Germany	Civil Society	300	Germany
26 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	HiLumi Program, technologies and opportunities, <i>ILO Forum</i>	15 Mar 2012	CERN, Switzerland	Industry	100	International
27 <a href="#">CDS Link</a>	Article / Misc	Schaffer, A. (CERN)	The LHC and its successors, <i>CERN Bulletin</i>	19 Mar 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
28 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, per vedere piu in là...della materia	20 Mar 2012	Rimini, Italy	Civil Society	4000	Italy
29 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Atomo indivisibile? Domande e certezze nella Scienza	22 Mar 2012	Saronno, Italy	Civil Society	100	Italy
30 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Atomo indivisibile? LHC e la nuova frontiera dell'infinitamente piccolo a cent'anni da Rutherford	23 Mar 2012	Trento, Italy	Civil Society	100	Italy
31 <a href="#">CDS Link</a>	Workshop Summary	Arduini, G. (CERN) et al	5th LHC Crab Cavity Workshop, LHC-CC11 Workshop Summary Report	5 Apr 2012	Geneva, Switzerland	Scientific Community	--	International

<a href="#">32 CDS Link</a>	Article / Misc	Fartoukh, S. (CERN) et al	A first layout for the High Luminosity LHC	8 Apr 2012	Geneva, Switzerland	Scientific Community	--	International
<a href="#">33 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Di cosa è fatta la materia? Domande e certezze nell'LHC del CERN	12 Apr 2012	Seveso, Italy	Civil Society	100	Italy
<a href="#">34 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC del CERN e le nuove frontiere dell'infinitamente piccolo	13 Apr 2012	Bassano del Grappa, Italy	Civil Society	150	Italy
<a href="#">35 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Quando l'avventura della conoscenza diventa una grande impresa scientifica	13 Apr 2012	Milano, Italy	Civil Society	100	Italy
<a href="#">36 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC and the role of Superconductivity in the hunt for the Higgs boson	15 Apr 2012	Houston, USA	Scientific Community, Policy Makers	120	USA
<a href="#">37 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Baer, T. (CERN) et al	LHC Machine Protection Against Very Fast Crab Cavity Failures, <i>Proceedings of IPAC2011, SAN Sebastian, Spain., 4-9 sEP 2011, pp. 1816.</i>	23 Apr 2012	San Sebastian, Spain	Scientific Community	--	International
<a href="#">38 CDS Link</a>	Article / Misc	Kahle, K. et al	Accelerating News Issue 1	24 Apr 2012	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">39 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	HiLumi Program, technologies and opportunities, <i>EUSPEN</i>	3 May 2012	Thoriy, France	Industry	100	International
<a href="#">40 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Fartoukh, S. (CERN) et al	Optics and Layout Solutions for HL-LHC with Large Aperture NB3SN and NB-TI Inner Triplets, <i>Presented at the International Particle Accelerator Conference (IPAC'12), New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
<a href="#">41 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Hall, B. (ULANC) et al	Analysis of the Four Rod Crab Cavity for HL-LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2275.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International

42 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Silva, S. (ODU) et al	Design and Development of Superconducting Parallel-bar Deflecting/Crabbing Cavities, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2453.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
43 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Nosochkov, Y (SLAC), et al	Field Tolerances for the Triplet Quadrupoles of the LHC High Luminosity Lattice, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 169-171.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
44 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Holzer, B. et al	Optics and lattice optimizations for the LHC upgrade project, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp.151</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
45 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Parametric Study of Optics Options for the HL-LHC Project, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp.1873.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
46 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Barranco García, J (CERN) et al	Study of Multipolar RF Kicks from the main deflecting mode in Compact Crab Cavities for LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp.142.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
47 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Metral, E. (CERN) et al	Collective effects in the LHC and its injector complex, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
48 <a href="#">Link</a>	Paper in proceedings of a Conference/ Workshop	Alesini, D. (CERN) et al	Experimental measurements clearing electrodes in the Dafne collider, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
49 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Rijoff, T. (CERN) et al	Simulation studies for the LHC long-range beam-beam compensators, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
50 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Bruning, O. (CERN) et al	Parameter Space for the LHC High-Luminosity Upgrade, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International

51 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Barranco García, R (CERN) et al	Study of Multipolar RF Kicks from the main deflecting mode in Compact Crab Cavities for LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 1873.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
52 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Ficcadenti, L (CERN) et al	Slim elliptical cavity at 800 MHz for local crab crossing, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2263.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
53 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Calaga, R (CERN) et al	A quarter wave design for crab crossing in the LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2260.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
54 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Baer, T. (CERN) et al	Very fast LHC Crab cavity failures and their mitigation, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
55 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Hall, B. (ULANC) et al	Analysis of the Four Rod Crab Cavity for HL-LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2275.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
56 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Silva, S U (ODU) et al	Design and Development of Superconducting Parallel-bar Deflecting/Crabbing Cavities, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2453.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
57 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Barranco García, J (CERN) et al	Study of Multipolar RF Kicks from the main deflecting mode in Compact Crab Cavities for LHC, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 1873.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
58 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Calaga, R (CERN) et al	Proton-beam emittance growth in SPS coasts, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 3737.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
59 <a href="#">Link</a>	Paper in proceedings of a Conference/ Workshop	Gorelov, D. et al	Engineering of a Superconducting 400 MHz Crabbing Cavity for the LHC HiLumi Upgrade, <i>Proceedings of IPAC12, New</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International



			<i>Orleans, Louisiana, USA, 20-25 May 2012, pp. 2411.</i>					
60 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Wu, Q (Brookhaven) et al	HOM Damping and Multipacting Analysis of the Quarter-wave Crab Cavity, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 2020.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
61 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Auchmann, B. et al	Magnetic Analysis of a Single-Aperture 11T Nb3Sn Demonstrator Dipole for LHC Upgrades, <i>Proceedings of IPAC12, New Orleans, Louisiana, USA, 20-25 May 2012, pp. 3596.</i>	21 May 2012	New Orleans, USA	Scientific Community	--	International
62 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC & LHC upgrades(s), <i>10emes Journees de Xryogenie et de Supraconductivite</i>	5-8 Jun 2012	Aussois	Scientific Community, Policy Makers	50	International
63 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC Upgrade(s)	21 Jun 2012	Daresbury, UK	Scientific Community	--	International
64 <a href="#">CDS Link</a>	Article / Misc	Kahle, K. et al	Accelerating News Issue 2	27 Jun 2012	Geneva, Switzerland	Civil Society, Scientific Community	--	International
65 <a href="#">CDS Link</a>	Article Published in the Popular Press	Braga, E.	Perche fermarsi al penultimo passo?, <i>Rivista internazionale di comunione e liberazione</i>	1 Jul 2012	--	Civil Society	--	Italy
66 <a href="#">CDS Link</a>	Article Published in the Popular Press	Casotto, U. (Tempi)	La certezza del mistero, <i>Tempi.</i>	18 Jul 2012	--	Civil Society	--	Italy
67 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	DOE review of LARP	9 July 2012	SLAC, USA	Scientific Community, Policy Makers	50	International
68 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Tecnologie avanzate per l'avventura della conoscenza: il Large Hadron Collider (LHC) del CERN	27 July 2012	San Miniato, Italy	Civil Society	100	Italy
69 <a href="#">CDS Link</a>	Scientific / Technical Note	Brining, O. et al	High Energy LHC - Document prepared for the European HEP strategy update	1 Aug 2012	Geneva, Switzerland	Scientific Community	--	International



<a href="#">70 CDS Link</a>	Scientific / Technical Note	Rossi, L. (CERN) et al	High Luminosity Large Hadron Collider - A description for the European Strategy Preparatory Group	1 Aug 2012	Geneva, Switzerland	Scientific Community	--	International
<a href="#">71 CDS Link</a>	Article/Misc	Schaeffer, A.	Small but powerful, <i>CERN Bulletin</i>	27 Aug 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
<a href="#">72 CDS Link</a>	Article/Misc	Schaeffer, A.	Warmer amps for the LHC, <i>CERN Bulletin</i>	27 Aug 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
<a href="#">73 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Plan and Options for LHC Upgrades, <i>GFA &amp; SwissFEL Accelerator Seminar</i>	3 Sep 2012	PSI, Villigen, Switzerland	Scientific Community	100	International
<a href="#">74 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	All'origine dell'universo: Fede e scienza, scontro o dialogo?	13 Sep 2012	Caorso, Italy	Civil Society	150	Italy
<a href="#">75 Link</a>	Thesis/Dissertat ion	Takala, E.	The laser quenching technique for studying the magneto-thermal instability in high critical current density superconducting strands for accelerator magnets.	Sept 2012	Turku, Finland	Scientific Community	--	International
<a href="#">76 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Superconducting and cryogenics technologies for the LHC upgrades, <i>SIF - Societa Italiana di Fisica</i>	18 Sep 2012	Napoli, Italy	Scientific Community	100	Italy
<a href="#">77 CDS Link</a>	Article / Misc	Kahle, K. at al	Accelerating News Issue 3	26 Sept 2012	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">78 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il Bosone di Higgs – la particella di Dio - Domande e certezze nella scienza	28 Sep 2012	Seregno, Italy	Civil Society	100	Italy
<a href="#">79 CDS Link</a>	Article published in the popular press	Caprara, G. (Corriere della Sera))	Il signor Rossi e la particella di Dio, <i>Corriere della Sera</i>	28 Sept 2012	Milan, Italy	Civil Society	--	Italy
<a href="#">80 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	The mystery of matter: the Higgs boson	3 Oct 2012	Menlo Park, USA	Civil Society	200	USA

81 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Advances in Applied Superconductivity Technologies for High Luminosity LHC Project, <i>ASC12 - Advances in Applied SC Conference</i>	9 Oct 2012	Portland, USA	Scientific Community, Policy Makers	50	International
82 <a href="#">CDS Link</a>	Scientific / Technical Note	Buffat, X. (EPFL) et al	Results of $\beta^*$ luminosity leveling MD	11 Oct 2012	Geneva, Switzerland	Scientific Community	--	International
83 <a href="#">CDS Link</a>	Article / Misc	Schaffer, A. (CERN)	Like hams in a smokehouse, <i>CERN Bulletin</i>	22 Oct 2012	Geneva, Switzerland	Scientific Community, Civil Society	--	International
84 <a href="#">CDS Link</a>	Scientific / Technical Note	Schaumann, M. (RWTH Aachen) et al	Intra-beam Scattering and Luminosity Evolution for HL-LHC Proton Beams	22 Oct 2012	Geneva, Switzerland	Scientific Community	--	International
85 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC E l'avventura della persona nell'impresa del piÙ grande strumento scientifico	23 Oct 2012	Milan, Italy	Civil Society	30	Italy
86 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	La scienza e l'idea di ragione, <i>Festival della Scienza di Genova</i>	28 Oct 2012	Genova, Italy	Civil Society	150	Italy
87 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC UpgradesTechnology & opportunities	6 Nov 2012	CERN, Switzerland	Industry	20	Germany
88 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	DI CERTEZZA IN CERTEZZA - Il motore della ricerca scientifica LHC del CERN	7 Nov 2012	Torino, Italy	Civil Society	50	Italy
89 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC des CERN: Abenteuer der Erkenntnis bei einem groÙen wissenschaftlichen Vorhaben	27 Nov 2012	Bruchsal, Germany	Civil Society	500	Germany
90 <a href="#">CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC des CERN: Abenteuer der Erkenntnis bei einem groÙen wissenschaftlichen Vorhaben	28 Nov 2012	Heidelberg, Germany	Civil Society	350	Germany
91 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	The High Luminosity LHC Project, <i>Superconducting technologies for the next generation of accelerators</i>	4 Dec 2012	CERN, Switzerland	Industry		International

<a href="#">92 CDS Link</a>	Article / Misc	Giampietro, M. (CERN)	Exchanging knowledge with industry on superconducting tech	4 Dec 2012	Geneva, Switzerland	Scientific Community	--	International
<a href="#">93 CDS Link</a>	Article / Misc	Kahle, K. et al	Accelerating News Issue 4	12 Dec 2012	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">94 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Domande e certezze nel mondo dei quark: il Large Hadron Collider (LHC) del CERN	20 Dec 2012	Varese, Italy	Civil Society	55	Italy
<a href="#">95 CDS Link</a>	Scientific / Technical Note	Buffat X. (EPFL) et al.	MD on squeeze with colliding beams	Jan 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">96 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	La particella di Higgs: Fine della caccia o inizio di una nuova avventura?	18 Jan 2013	Forli, Italy	Civil Society	250	Italy
<a href="#">97 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	La particella di Higgs: Fine della caccia o inizio di una nuova avventura?	19 Jan 2013	Pesaro, Italy	Civil Society	600	Italy
<a href="#">98 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	La scoperta della "particella di Dio" all'LHC del CERN Scienza e Fede alla ricerca della verità	25 Jan 2013	Lugano, Switzerland	Civil Society	250	Switzerland
<a href="#">99 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	La scoperta della "particella di Dio" all'LHC del CERN Scienza e Fede alla ricerca della verità	26 Jan 2013	Cucciago, Italy	Civil Society	200	Italy
<a href="#">100 CDS Link</a>	Article / Misc	Rossi, L. (CERN)	Superconductivity leads the way to high luminosity, <i>CERN Courier</i>	28 Jan 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">101 CDS Link</a>	Article / Misc	Sutton, C. (CERN)	Superconductivity leads the way to high luminosity, <i>CERN Courier</i>	28 Jan 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">102 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il Mistero della Materia e la scoperta del bosone di Higgs al CERN	15 Feb 2013	Piacenza, Italy	Civil Society	150	Italy
<a href="#">103 CDS Link</a>	Scientific/ Technical Note	Baudrenghien, P.	Functional Specifications of the LHC Prototype Crab Cavity System	28 Feb 2013	Geneva, Switzerland	Scientific Community	--	International

<a href="#">104 CDS Link</a>	Scientific/ Technical Note	Burov, A (Fermilab)	Three-Beam Instability in the LHC	4 Mar 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">105 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC and new technologies to go beyond the Higgs Boson	13 Mar 2013	Milano, Italy	Scientific Community, Policy Makers	80	Italy
<a href="#">106 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	The LHC, the Higgs boson and Superconductivity for next generation accelerators at CERN	14 Mar 2013	Bologna, Italy	Scientific Community, Policy Makers	250	Italy
<a href="#">107 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, per vedere piu in là... della materia	15 Mar 2013	Rimini, Italy	Civil Society	1500	Italy
<a href="#">108 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il Bosone di Higgs e il Mistero della Materia: LHC, la nuova frontiera al CERN	16 Mar 2013	Gallarate, Italy	Civil Society	200	Italy
<a href="#">109 CDS Link</a>	arXiv	Stancari, G. (Fermilab) et al	Measurements of the effect of collisions on transverse beam halo diffusion in the Tevatron and in the LHC	18 Mar 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">110 CDS Link</a>	Article / Misc	Szeberenyi, A. (CERN) et al	Accelerating News Issue 5	20 Mar 2013	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">111 CDS Link</a>	Scientific / technical Note	Buffat, X. (EPFL) et al	Stability of beams colliding with a transverse offset	28 Mar 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">112 CDS link</a>	Scientific / technical Note	Wanzenberg , R. (DESY)	Calculation of Wakefield and Higher Order Modes for the New Design of the Vacuum Chamber of the CMS Experiment for the HL- LHC	10 Apr 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">113 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Superconductivity: its Role and Challenges for Next-generation Colliders	11 Apr 2013	Berkley, USA	Scientific Community, Policy Makers	60	USA
<a href="#">114 CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC and the role of Superconductivity in the hunt for the Higgs boson	16 Apr 2013	Houston, USA	Scientific Community, Policy Makers	25	USA
<a href="#">115 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	The Mystery of Matter and the hunt for the "God particle"	16 Apr 2013	Houston, USA	Civil Society	600	USA

116 <a href="#">CDS Link</a>	Article / Misc	CERN	The High Luminosity Large Hadron Collider	23 Apr 2013	Geneva, Switzerland	Scientific Community, Civil Society	--	International
117 <a href="#">CDS Link</a>	Article / Misc	CERN Bulletin	The success of the 11-Tesla project and its potential beyond particle physics, <i>CERN Bulletin</i>	6 May 2013	Geneva, Switzerland	Scientific Community, Civil Society	--	International
118	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Manufacturing and Testing based on LHC SC magnet production	8 May 2013	CERN, Switzerland	Scientific Community	--	International
119 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	HLLHC V1.0: HL-LHC layout and optics models for 150 mm Nb3Sn triplets and local crab-cavities, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
120 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Korostelev, M. et al	Optics Transition Between Injection and Collision Optics for the HL-LHC Upgrade Project, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
121 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Dalena, B. et al	High Luminosity LHC matching section layout vs crab cavity voltage, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1328.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
122 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Nosochkov, Y. et al	Optimization of Triplet Quadrupoles Field Quality for the LHC High Luminosity Lattice at Collision Energy, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1364.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
123 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Specification of a System of Correctors for the Triplets and Separation Dipoles of the LHC Upgrade, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
124 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Dynamic Aperture Performance for Different Collision Optics Scenarios for the LHC Luminosity Upgrade, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp.2609.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
125 <a href="#">CDS Link</a>	Paper in proceedings of a	Nosochkov, Y. et al	Evaluation of Field Quality for Separation Dipoles and Matching Section Quadrupoles for the LHC High Luminosity Lattice at Collision	12 May 2013	Shanghai, China	Scientific Community	--	International

	Conference/ Workshop		Energy, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1367.</i>					
126 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Specifications of the Field Quality at Injection Energy of the New Magnets for the HL-LHC Upgrade Project, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp.2603.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
127 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Bogomyagkov, A. et al	Analysis of the Non-linear Fringe Effects of Large Aperture Triplets for the HL LHC Project, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp.2615.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
128 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Giovannozzi, M. et al	Analysis of Possible Functional Forms of the Scaling Law for Dynamic Aperture as a Function of Time, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp.2618.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
129 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Recent Developments and Future Plans for SixTrack, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 948</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
130 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Investigation of Numerical Precision Issues of Long Term Single Particle Tracking, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 942</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
131 <a href="#">Link</a>	Paper in proceedings of a Conference/ Workshop	De Maria, R. (CERN) et al	Study of the IR2 and IR8 Squeezeability for HL-LHC Upgrade <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1361</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
132 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Salvant, B (CERN) et al	Update on Beam Induced RF Heating in the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1646</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
133 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Iadarola, G (U. Naples) et al	Electron Cloud and Scrubbing Studies for the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1331</i>	12 May 2013	Shanghai, China	Scientific Community	--	International

134 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Métral, E (CERN) et al	Lessons Learnt and Mitigation Measures for the CERN LHC Equipment with RF fingers, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1802</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
135 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Buffat, X. (EPFL) et al.	Colliding during the squeeze and $\beta$ levelling in the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1415.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
136 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Esposito, L. et al	Fluka energy deposition studies for the HL LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1379.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
137 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Calaga, R. (CERN) et al	First Test Results of the 4-ROD Crab Cavity, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2405.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
138 <a href="#">Link</a>	Paper in proceedings of a Conference/ Workshop	De Silva, S. et al	Compact Superconducting RF-Dipole Cavity Designs for Deflecting and Crabbing Applications, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2483.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
139 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Li, Zenghai (SLAC) et al	HOM Damping Coupler Design for the 400-MHz RF Dipole Compact Crab Cavity for the LHC HiLumi Upgrade, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2468.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
140 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Burt, G. (Lancaster U.) et al	Manufacture of a Compact Prototype 4R Crab Cavity for HL-LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2420.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
141 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Xiao, B. (RIKEN BNL) et al	Mechanical Study of 400 MHz Double Quarter Wave Crab Cavity for LHC Luminosity Upgrade, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2417.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
142 <a href="#">CDS Link</a>	Paper in proceedings of a	Yee-Rendon, B (CINVEST	Machine Protection Studies for a Crab Cavity in the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International



	Conference/ Workshop	AV Mexico) et al						
143 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Navarro M. et al	RF multipolar studies of the latest crab cavities, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2402.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
144 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Paret, S. (LBNL, Berkeley) et al	Tune Studies with Beam-Beam Effects in LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1703.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
145 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Calaga, R. (CERN) et al	A double-quarter wave design for the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12- 17 May 2013, pp. 2408.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
146 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Marsili, A. (CERN) et al	Simulations and Measurements of Physics Debris Losses at the 4 TeV LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 984</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
147 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Marsili, A. (CERN) et al	Simulations of Collimation Cleaning Performance with HL-LHC Optics, <i>Proceedings of IPAC 13, Shanghai, China, 12- 17 May 2013, pp. 987</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
148 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Mirarchi, D (CERN) et al	Layouts for Crystal Collimation Tests at the LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 966.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
149 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Kelly, S. et al	Study of the Impact of Fringe Fields of the Large Aperture Triplets on the Linear Optics of the HL-LHC <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2642.</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
150 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Lari, L. et al	Studies of Thermal Loads on Collimators for HL-LHC Optics in Case of Fast Losses <i>Proceedings of IPAC 13, Shanghai, China, 12- 17 May 2013, pp. 999</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
151 <a href="#">Link</a>	Paper in proceedings of a	Giovannozzi, M. et al	Specification of a System of Correctors for the Triplets and Separation Dipoles of the LHC	12 May 2013	Shanghai, China	Scientific Community	--	International



	Conference/ Workshop		Upgrade, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2612</i>					
152 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Holzer, B. et al	Optics Design and Lattice Optimisation for the HL-LHC <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 1385</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
153 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Appleby, R. et al	LSS Layout Optimizations for Low-beta Optics for the HL-LHC, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2639</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
154 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Zlobin, A. et al	Fabrication and Test of a 1 M Long Single-aperture 11 T Nb3Sn Dipole for LHC Upgrades, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 3609</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
155 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Brett, D. et al	Comparison of Taylor Maps with Radio Frequency Multipoles in a Thin Lens 6D Tracking Code, <i>Proceedings of IPAC 13, Shanghai, China, 12-17 May 2013, pp. 2687</i>	12 May 2013	Shanghai, China	Scientific Community	--	International
156 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Advanced SC Magnets and devices for the LHC upgrade	27 May 2013	CERN, Switzerland	Scientific Community	--	International
157 <a href="#">CDS Link</a>	Status Report	Dominguez, O.	Electron cloud studies for alternative train configurations and bunch spacings at the HL-LHC	5 June 2013	Geneva, Switzerland	Scientific Community	--	International
158 <a href="#">CDS Link</a>	Article	Chaudron, M. et al	Accelerating News Issue 6	20 Jun 2013	Geneva, Switzerland	Civil Society, Scientific Community	--	International
159 <a href="#">CDS Link</a>	Article	Yarris, L. (Berkeley Lab)	Successful Test of New U.S. Magnet Puts Large Hadron Collider on Track for Major Upgrade	11 Jul 2013	Geneva, Switzerland	Scientific Community	--	International
160 <a href="#">Link</a>	Thesis	Bignami, A.	Studio delle connessioni superconduttive in MgB2 per il progetto Hi-Lumi-LHC	23 Jul 2013	Milan, Italy	Scientific Community	--	International
161 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Xiao, B. P. et al	Proof of Principle Cavity Preparation and Testing: BNL Double Quarter Wave Design, <i>SFR 13</i> .	12 Sep 2013	Paris, France	Scientific Community	--	International

<a href="#">162 CDS Link</a>	Article	Rossi, L. (CERN) et al	LARP Testing Newest High-field Quadrupole Magnet, <i>Superconductor Week</i>	16 Sep 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">163 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Métral, E (CERN)	RF heating from wake losses in diagnostics structures, <i>Proceedings of IBIC2013, Oxford, UK, 16-19 September 2013, pp. 929.</i>	16 Sep 2013	Oxford, UK	Scientific Community	--	International
<a href="#">164 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Boogert, S T (Royal Holloway, U. of London) et al	Beam delivery simulation (BDSIM) : a Geant4 based toolkit for diagnostic and loss simulation, <i>Proceedings of IBIC2013, Oxford, UK, 16-19 September 2013, pp. 799.</i>	16 Sep 2013	Oxford, UK	Scientific Community	--	International
<a href="#">165 Link</a>	Paper in proceedings of a Conference/ Workshop	Verdu, S. et al	Optimization of the double quarter wave cavity for testing in SPS, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013, pp. 975.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International
<a href="#">166 Link</a>	Paper in proceedings of a Conference/ Workshop	Xiao, B. et al	Compact HOM filter for crab cavities in the LHC, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013, pp. 1006.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International
<a href="#">167 Link</a>	Paper in proceedings of a Conference/ Workshop	Calaga, R. (CERN) et al	LHC Crab Cavity. Progress and Outlook, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013, pp. 1161.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International
<a href="#">168 Link</a>	Paper in proceedings of a Conference/ Workshop	Burt, G. et al	Design of a 4 rod crab cavity cryomodule system for HL-LHC, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013, pp. 982.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International
<a href="#">169 Link</a>	Paper in proceedings of a Conference/ Workshop	Pattalwar, S. et al	Conceptual Design of a Cryomodule for Compact Crab Cavities for Hi-Lumi LHC, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013, pp. 353.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International
<a href="#">170 Link</a>	Oral Presentation to a Scientific Event	De Silva, S.	Superconducting RF-Dipole Deflecting and Crabbing Cavities, <i>Proceedings of SFR 2013, Paris, France, 23-27 Sep 2013.</i>	23-27 Sep 2013	Paris, France	Scientific Community	--	International

<a href="#">171 CDS Link</a>	Article	Wogan, T. (CERN)	Magnet sets path for high luminosity, <i>Physics World</i>	1 Oct 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">172 CDS Link</a>	Oral Presentation to a Scientific Event	Fartoukh, S. (CERN)	Pile-Up density at HL-LHC with new shaping and leveling techniques, <i>ECFA High Luminosity LHC Experiments Workshop</i>	1-3 Oct 2013	Aix-les-Bains, France	Scientific Community	--	International
<a href="#">173 CDS Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 7	2 Oct 2013	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">174 CDS Link</a>	Scientific / Technical Note	Bruning, O. (CERN) et al	HL-LHC: How to achieve Upgrade Scenario 1 goals in the LHC?	29 Oct 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">175 CDS Link</a>	Scientific / Technical Note	Arduini, G. (CERN) et al	How to maximize the HL-LHC performance (HL-LHC)?	29 Oct 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">176 CDS Link</a>	Scientific / technical Note	Tomas, R. (CERN) et al	HL-LHC: Exploring alternative ideas	29 Oct 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">177 CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Arduini, G. (CERN) et al	Pics: what do we gain in beam performance, <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France, 29-31 October 2013, pp. 49-56.</i>	29 Oct 2013	Archamps, France	Scientific Community	--	International
<a href="#">178 CDS Link</a>	Paper in proceedings of a Conference	Todesco, E. (CERN)	Upgrade Scenario One: Work Effort, <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France, 29-31 October 2013</i>	29 – 31 Oct 2013	Archamps, France	Scientific Community	--	International
<a href="#">179 CDS Link</a>	Paper in proceedings of a Conference	Rossi, L. (CERN) et al	Session 3: PICs and Upgrade Scenario 1, <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France, 29-31 October 2013</i>	29 – 31 Oct 2013	Archamps, France	Scientific Community	--	International
<a href="#">180 CDS Link</a>	Paper in proceedings of a Conference	Myers, S. et al	Review of LHC and Injector Upgrade Plans – Summary, <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France, 29-31 October 2013</i>	29 – 31 Oct 2013	Archamps, France	Scientific Community	--	International

181 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Arduini, G. et al	How to Maximize the HL-LHC Performance (HL-LHC)? , <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France</i>	29 – 31 Oct 2013	Archamps, France	Scientific Community	--	International
182 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Rossi, L. et al	How to Implement all HL-LHC Upgrades? <i>Proceedings of RLIUP: Review of LHC and Injector Upgrade Plans, Centre de Convention, Archamps, France</i>	29 – 31 Oct 2013	Archamps, France	Scientific Community	--	International
183 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Bruning, O. (CERN)	HL-LHC: How to achieve Upgrade Scenario 1 goals in the LHC? <i>RLIUP: Review of LHC and Injector Upgrade Plans</i>	30 Oct 2013	Archamps, France	Scientific Community	--	International
184 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Jowett, J. et al	Future Heavy-Ion Performance of the LHC, <i>Review of LHC and Injector Upgrade Plans</i>	31 Oct 2013	Archamps, France	Scientific Community	--	International
185 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Dalena, B. (CERN) et al	Alternative design of the matching section (option to increase crab cavity kicks) <i>3rd Joint Hilumi LHCLARP Meeting</i>	11 Nov 2013	Geneva, Switzerland	Scientific Community	--	International
186 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Pieloni, T. (CERN)	Beam-beam studies and code development update, <i>3rd Joint Hilumi LHCLARP Meeting</i>	11 Nov 2013	Geneva, Switzerland	Scientific Community	--	International
187 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Iadarola, G. (CERN) et al	Electron cloud effects and expected limitations in the HL-LHC era (stability, heat load in existing and new components, countermeasures), <i>3rd Joint Hilumi LHCLARP Meeting</i>	11 Nov 2013	Geneva, Switzerland	Scientific Community	--	International
188 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rumolo, G. (CERN) et al	Possible strategy for scrubbing LHC for 25 ns operation	27 Nov 2013	Geneva, Switzerland	Scientific Community	--	International
189 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	White, S. (CERN)	Impact of a 200MHz RF System, <i>6<sup>th</sup> LHC crab cavity workshop.</i>	9 Dec 2013	Geneva, Switzerland	Scientific Community	--	International
190 <a href="#">CDS Link</a>	Article	Szeberenyi, A. (CERN) et al	Accelerating News Issue 8	10 Dec 2013	Geneva, Switzerland	Civil Society, Scientific Community	--	International

<a href="#">191 CDS Link</a>	Oral Presentation to a Scientific Event	Fartoukh, S. (CERN)	The crab-kissing scheme: concept and motivations, <i>6<sup>th</sup> LHC crab cavity workshop</i>	10 Dec 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">192 CDS Link</a>	Scientific / technical Note	Wanzenberg, R. (DESY)	Calculation of Wakefield and Higher Order Modes for the New Design of the Vacuum Chamber of the ATLAS Experiment for the HL-LHC	17 Dec 2013	Geneva, Switzerland	Scientific Community	--	International
<a href="#">193 CDS Link</a>	arXiv	Todesco, E. (CERN)	Quench limits in the next generation of magnets	16 Jan 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">194 CDS Link</a>	Article / Misc	Rossi, L. (CERN) et al	HiLumi LHC design study moves towards HL-LHC	22 Jan 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">195 CDS Link</a>	Article / Misc	Allport, P. (CERN) et al.	Workshop looks towards High-Luminosity LHC, <i>CERN Courier</i>	22 Jan 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">196 Link</a>	Article / Misc	Charley, S. (Simmetry)	Labs work together toward high-luminosity LHC, <i>Simmetry</i> .	23 Jan 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">197 CDS Link</a>	Scientific / Technical Note	Metral, E. (CERN) et al	Summary of the 2-day internal review of LHC performance limitations (linked to transverse collective effects) during run I	31 Jan 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">198 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, il bosone di Higgs e le nuove frontiere della fisica e tecnologia al CERN di Ginevra	8 Feb 2014	Piacenza, Italy	Civil Society	500	Italy
<a href="#">199 Link</a>	Oral Presentation to a Scientific Event	Qiong W. (CERN)	Double Quarter-wave Cavity Design and Plans, <i>LARP Review</i>	17 Feb 2014	Batavia, IL, USA	Scientific Community	--	International
<a href="#">200 Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 9	Mar 2014	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">201 CDS Link</a>	Oral Presentation to a Scientific Event	Mounet, R. (CERN) et al	Impedance Considerations for the Design of the Triplet / D1 Beam Screen, <i>Technical Meeting on Vacuum for HL-LHC</i>	5 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">202 CDS Link</a>	Oral Presentation to a Scientific Event	Iadarola, G. (CERN) et al	Electron cloud estimates in the HL-LHC triplets/D1	5 Mar 2014	Geneva, Switzerland	Scientific Community	--	International

<a href="#">203 CDS Link</a>	Oral Presentation to a Scientific Event	De Maria, R. (CERN)	Review of the aperture margins for the new HL-LHC magnets	5 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">204 CDS Link</a>	Oral Presentation to a Scientific Event	Calaga, R. (CERN) et al	Impedance aspects of Crab cavities	5 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">205 CDS Link</a>	Oral Presentation to a Scientific Event	Arduini, G. (CERN) et al	Heat load from impedance on existing and new hardware in the LHC era	5 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">206 CDS Link</a>	Oral Presentation to a Scientific Event	Arduini, G. (CERN)	LHC Machine Upgrade, <i>IFD 2014</i>	11-13 Mar 2014	Trento, Italy	Scientific Community	--	International
<a href="#">207 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	The frontier of knowledge and the CERN's Large Hadron Collider: A world success of European Identity and of international collaboration	15 Mar 2014	Cologne, Germany	Civil Society, Scientific Community	400	Germany
<a href="#">208 CDS Link CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, il bosone di Higgs e le nuove frontiere della fisica e tecnologia al CERN di Ginevra	21 Mar 2014	Padova, Italy	Civil Society	100	Italy
<a href="#">209 CDS Link</a>	Oral Presentation to a Scientific Event	Metral, E. (CERN)	Recommendations (from Collective Effects Considerations) for the LHC 2015 Run	25 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">210 CDS Link</a>	Oral Presentation to a Scientific Event	Spurrell, J (SOTON) et al	Quench property of twisted-pair MgB2 superconducting cables in helium gas	26 Mar 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">211 CDS Link</a>	Article	Sassone Corsi, E. (MAINN)	Al CERN per parlare di Superconduttività e Trasferimento Tecnologico, <i>MAINN</i>	1 Apr 2014	Italy	Civil Society, Industry	--	Italy
212	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Innovative metal-matrix composite for thermal management	7-11 Apr 2014	Hannover, Germany	Industry	-	Germany
<a href="#">213 CDS Link</a>	Article	Del Rosso, A. (CERN)	World-record current in a superconductor	14 Apr 2014	Geneva, Switzerland	Scientific Community, Civil Society	--	International

214	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	LHC: the accelerator, the discovery, and plan for the future developments	16 Apr 2014	Houston, USA	Scientific Community, Policy Makers	100	USA
215 <a href="#">Link</a>	Thesis	Tedesco, L.	Caratterizzazione delle connessioni superconduttive per il progetto HL-LHC del CERN	29 Apr 2014	Milan, Italy	Scientific Community	--	International
216 <a href="#">CDS Link</a>	Scientific / Technical Note	Calaga, R. (CERN) et al	Ranking Criteria, LHC crab cavities	6 May 2014	Geneva, Switzerland	Scientific Community	--	International
217 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Salvant B. (CERN) et al	Impedance Aspects for SPS & LHC, <i>HiLumi-LHC/LARP Crab Cavity System External Review</i>	6 May 2014	BNL, USA	Scientific Community	--	International
218 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Mounet, N. (CERN)	DELPHI: an Analytic Vlasov Solver for Impedance-Driven Modes	7 May 2014	Geneva, Switzerland	Scientific Community	--	International
219 <a href="#">CDS Link</a>	Scientific / Technical Note	Fitterer, M (CERN)	Optics Considerations for PIC and US1 scenarios for HL-LHC in the framework of the RLIUP review	7 May 2014	Geneva, Switzerland	Scientific Community	--	International
220 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Cai, Y. (SLAC)	Field Quality and Dynamic Aperture Simulations, <i>LARP / HiLumi-LHC Collaboration Meeting, Brookhaven National Laboratory</i>	7-9 May 2014	Uptown, NY, USA	Scientific Community	--	International
221 <a href="#">Link</a>	Oral Presentation to a Scientific Event	De Maria, R. (CERN) et al	Optics and Layout Update, <i>LARP / HiLumi-LHC Collaboration Meeting, Brookhaven National Laboratory.</i>	7-9 May 2014	Uptown, NY, USA	Scientific Community	--	International
222 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Banfi, D. (EPFL) et al	Beam-beam effects and limitations in HL-LHC, <i>LARP / HiLumi-LHC Collaboration Meeting, Brookhaven National Laboratory.</i>	7-9 May 2014	Uptown, NY, USA	Scientific Community	--	International
223 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Valishev, A. (Fermilab) et al	BBLR compensation for HL-LHC, <i>LARP / HiLumi-LHC Collaboration Meeting, Brookhaven National Laboratory.</i>	7-9 May 2014	Uptown, NY, USA	Scientific Community	--	International
224 <a href="#">Link</a>	Oral Presentation to a Scientific Event	Qiang, J. (LBNL) et al	Strong-strong simulations: benchmark with LHC observations, <i>LARP / HiLumi-LHC Collaboration Meeting, Brookhaven National Laboratory.</i>	7-9 May 2014	Uptown, NY, USA	Scientific Community	--	International



<a href="#">225 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Die Erfahrung des Forschers und das Staunen des Menschen	21 May 2014	Hamburg, Germany	Civil Society	300	Germany
<a href="#">226 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il bosone di Higgs e i nuovi territori di caccia all'LHC del CERN	30 May 2014	Piacenza, Italy	Civil Society	60	Italy
<a href="#">227 CDS Link</a>	Scientific / Technical note	Bruce, R (CERN) et al	Parameters for HL-LHC aperture calculations and comparison with aperture measurements	30 Apr 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">228 Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 10	Jun 2014	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">229 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC E l'avventura della persona nella piu' grande impresa scientifica	1 Jun 2014	La Thuile, Italy	Civil Society	80	Italy
<a href="#">230 CDS Link</a>	Status Report	Champion, M. et al	Report of the HiLumi-LHC/LARP Crab Cavity System External Review Committee	6 Jun 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">231 CDS Link</a>	Paper in proceedings of a Conference	Shashkov, Y. (NRNU) et al	Comparison of high order modes damping techniques for 800 MHz single cell superconducting cavities, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 784. .</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">232 CDS Link</a>	Paper in proceedings of a Conference	Frasciello, O. et al	Geometric beam coupling impedance of LHC secondary collimators, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1677.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">233 CDS Link</a>	Paper in proceedings of a Conference	Serluca, M. (UNIMAN) et al	Hi-Lumi LHC Collimation Studies with MERLIN Code, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 2558.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">234 CDS Link</a>	Paper in proceedings of a Conference	Banfi, D. (EPFL) et al	Weak-Strong Beam-Beam Simulations For Hi-Lhc, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 3079.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">235 CDS Link</a>	Paper in proceedings of a Conference	Crouch, M (UNIMAN) et al	Simulations of emittance growth due to an external noise in colliding beams in the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1071.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International



236 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Qiang, Ji (LBNL)	Strong-strong Beam-beam Simulation for the LHC Upgrade, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1006.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
237 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Nosochkov, Y. et al	Specification of Field Quality of the Interaction Region Magnets of the High Luminosity LHC Based on Dynamic Aperture, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
238 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Dalena, B. (IRFU) et al	Fringe fields modeling for the high luminosity LHC large aperture quadrupoles, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
239 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Appleby, R B. (Manchester U.) et al	Modelling and long term dynamics of crab cavities in the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
240 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Dalena, B. (IRFU) et al	Alternative high luminosity LHC matching section layout, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
241 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Angal-Kalinin, D. (STFC) et al	Benchmarking Studies of Intra Beam Scattering for HL-LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1064.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
242 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Pattalwar, S. (Daresbury)	Key Design Features of Crab-Cavity Cryomodule for HiLumi LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 2580.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
243 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Jones, T. (Daresbury)	Testing and Dressed Cavity Design for the HL-LHC 4R Crab Cavity, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 2589.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
244 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Yee-Rendon, B (CINVEST AV-IPN)	Fast crab cavity failures in HL-LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
245 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Marsili, A. (CERN) et al	Collimation Cleaning for HL-LHC Optics Scenarios with Error Models, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 163.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International

<a href="#">246 CDS Link</a>	Paper in proceedings of a Conference	Marsili, A. (CERN) et al	Multi-turn tracking of collision products at the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 166.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">247 CDS Link</a>	Paper in proceedings of a Conference	Marsili, A. (CERN) et al	Final layout and expected cleaning for the first crystal-assisted collimation test at the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 882.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">248 CDS Link</a>	Paper in proceedings of a Conference	Stancari, G (Fermilab) et al	Electron lenses for the large hadron collider, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 918.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">249 CDS Link</a>	Paper in proceedings of a Conference	Bruce, R (CERN) et al	Cleaning Performance with 11T Dipoles and Local Dispersion Suppressor Collimation at the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 170.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">250 CDS Link</a>	Paper in proceedings of a Conference	Bruce, R (CERN) et al	Integrated simulation tools for collimation cleaning in HL-LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 160.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">251 CDS Link</a>	Paper in proceedings of a Conference	Serluca, M (U. Manchester) et al	Comparison of MERLIN/SixTrack for LHC Collimation Studies, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 185.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">252 CDS Link</a>	Paper in proceedings of a Conference	Lari, L. (IFIC) et al	Collimator fast failure losses for various HL-LHC configurations, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 157.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">253 CDS Link</a>	Paper in proceedings of a Conference	Lechner, A. (CERN) et al	Power Deposition in LHC Magnets With and Without Dispersion Suppressor Collimators Downstream of the Betatron Cleaning Insertion, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 112.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">254 CDS Link</a>	Paper in proceedings of a Conference	Markiewicz, T (SLAC) et al	Construction and bench testing of a prototype rotatable collimator for the LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
<a href="#">255 Link</a>	Paper in proceedings of a Conference	Nevay, L. et al	Beam delivery simulations: BDSIM - development & optimization, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International

253 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Kwee-Hinzmann, R (Royal Holloway, U. of London) et al	First beam background simulation studies at irl for high luminosity LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
257 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Zlobin, A. et al	Testing of a Single 11 T Nb3Sn Dipole Coil Using a Dipole Mirror Structure, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
258 <a href="#">Link</a>	Paper in proceedings of a Conference	Zlobin, A. et al	Status of 11 T 2-in-1 Nb3Sn Dipole Development for LHC, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.,.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
259 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Bouly, F. et al	Preliminary Study of Risks and Failure Scenarios for the High Luminosity Experiments in HL-LHC <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.,.</i>	15 Jun 2014	Dresden, Germany.	Scientific Community	--	International
260 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Frasciello, O. et al	Geometric Beam Coupling Impedance of LHC Secondary Collimators <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1676</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
261 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Mirarchi, D. et al	Final Layout and Expected Cleaning for the First Crystal-Assisted Collimation Test at the LHC <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 882</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
262 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Mokhov, N. et al	Energy Deposition Studies for the Hi-Lumi LHC Inner Triplet Magnets <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1078</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
263 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Gupta, R.	Conceptual Magnetic Design of the Large Aperture D2 Dipole for LHC Upgrade, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 2737</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International

264 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Sabbi, G. et al	Conceptual Design Study of the High Luminosity LHC Recombination Dipole, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 2712</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
265 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Zobov, M. et al	Comparison of Higher Order Modes Damping Techniques for 800 MHz Single Cell Superconducting Cavities, <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014.</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
266 <a href="#">CDS Link</a>	Paper in proceedings of a Conference/ Workshop	Zobov, M. et al	A Wideband Slotted Kicker Design for SPS Transverse Intra-Bunch Feedback <i>Proceedings of IPAC14, Dresden, DE, 15-20 June 2014, pp. 1772</i>	15 Jun 2014	Dresden, Germany	Scientific Community	--	International
267 <a href="#">CDS Link</a>	Article published in the popular press	Novara, N. (Liberta)	A caccia dell'infinitamente piccolo, <i>Liberta</i>	1 Jul 2014	Piacenza, Italy	Civil Society	--	Italy
268 <a href="#">CDS Link</a>	Article / Misc	ICHEP	Interview with Lucio Rossi, <i>ICHEP Newsletter</i>	4 Jul 2014	Valencia, Spain	Scientific Community	--	International
269 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	HL-LHC Project -Status and Perspectives, <i>ICHEP 2014</i>	7 Jul 2014	Valencia, Spain	Scientific Community, Policy Makers	200	Spain
270 <a href="#">CDS Link</a>	Article published in the popular press	Malacaza, E. (Liberta)	"Settimana della Letteratura": Bobbio torna capitale dei libri : Il fisico del CERN di Ginevra Lucio Rossi e il "Piacentino dell'anno", <i>Liberta</i> .	1 Aug 2014	Piacenza, Italy	Civil Society	--	Italy
271 <a href="#">CDS Link</a>	Article / Misc	Schaeffer, A. (CERN)	The light at the end of the tunnel gets brighter, <i>CERN Bulletin</i>	4 Aug 2014	Geneva, Switzerland	Scientific Community, Civil Society	--	International
272 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	The plan for the post-LHC(and why SC is so important) –plenary, <i>ASC 2014</i>	13 Aug 2014	Charlotte, USA	Scientific Community, Policy Makers	1600	International
273 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	The EuCARD-2 Future Magnets European collaboration for accelerator quality HTS magnets, <i>ASC 2014</i>	13 Aug 2014	Charlotte, USA	Scientific Community, Policy Makers	150	International

<a href="#">274 CDS Link</a>	Oral Presentation to a Scientific Event	Bruning, O. et al	High Luminosity LHC, <i>Physics at LHC and beyond, Rencontres du Vietnam.</i>	10-17 Aug 2014	Qui Nhon, Vietnam	Scientific Community	--	International
<a href="#">275 CDS Link</a>	Oral Presentation to a Scientific Event	Tabasco, C. (CERN) et al	HL-LHC Stability Diagrams: octupoles and beam-beam long range, <i>Beam-beam meeting</i>	21 Aug 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">276 Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 11	Sep 2014	Geneva, Switzerland	Civil Society, Scientific Community	--	International
<a href="#">277 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	La scienza a servizio del desiderio di conoscenza dell'Uomo	12 Sep 2014	Bisuschio, Italy	Civil Society	150	Italy
<a href="#">278 CDS Link</a>	Oral Presentation to a scientific event	Rossi, L. (CERN)	LHC machine upgrade Run II and HL-LHC	18 Sep 2014	Uppsala, Sweden	Scientific Community, Policy Makers	80	International
<a href="#">279 CDS Link</a>	Paper in proceedings of a Conference	Redaelli, S. (CERN) et al	Collimation Upgrades for HL-LHC, <i>Proceedings of Chamonix 2014 workshop on LHC Performance, Chamonix, France.</i>	22-25 Sep 2014	Chamonix, France	Scientific Community	--	International
<a href="#">280 CDS Link</a>	Paper in proceedings of a Conference	Paret, S. (LNBL) et al	Coherent Instability due to beam-beam interaction in hadron colliders, <i>Proceedings of PAC2013, Pasadena, CA USA.</i>	8 Oct 2014	Pasadena, CA	Scientific Community	--	International
<a href="#">281 CDS Link</a>	Paper in proceedings of a Conference	Valishev, A. (FNAL) et al	Beam-beam studies for HL-LHC, <i>Proceedings of PAC2013, Pasadena, CA USA.</i>	8 Oct 2014	Pasadena, CA	Scientific Community	--	International
<a href="#">282 Link</a>	Paper in proceedings of a Conference	Olave, R et al	Study of cavity imperfection impact on rf-parameters and multipole components in a superconducting RF-dipole cavity, <i>Proceedings of PAC2013, Pasadena, CA USA.</i>	8 Oct 2014	Pasadena, CA	Scientific Community	--	International
<a href="#">283 CDS Link</a>	Paper in proceedings of a Conference	Stancari, G. et al	Collimation with Hollow Electron Beams : a Proposed Design for the LHC Upgrade, <i>Proceedings of PAC2013, Pasadena, CA USA</i>	8 Oct 2014	Pasadena, CA	Scientific Community	--	International
<a href="#">284 CDS Link</a>	Oral Presentation to a wider public	Anelli, G. (CERN)	Knowledge and technology transfer @CERN, <i>Italy @ CERN 2014</i>	8 Oct 2014	Geneva, Switzerland	Scientific Community, Civil Society	--	Italy

<a href="#">285 CDS Link</a>	Oral Presentation to a Scientific Event	Todesco, E. (CERN)	HL-LHC IR magnets, <i>CERN TE Seminar</i> .	9 Oct 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">286 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il vuoto, la materia, la ricerca	11 Oct 2014	Rome, Italy	Civil Society	250	Italy
<a href="#">287 CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Il bosone di Higgs e i nuovi territori di caccia all'LHC del CERN	20 Oct 2014	Piacenza, Italy	Civil Society	150	Italy
<a href="#">288 CDS Link</a>	Article Published in the popular press	Novara, N. (Liberta)	Lucio Rossi al Politecnico: Tra voi un ricercatore CERN, <i>Liberta</i> .	21 Oct 2014	Piacenza, Italy	Civil Society	--	Italy
<a href="#">289 CDS Link</a>	Oral Presentation to a Scientific Event	Arduini, G. (CERN)	The LHC and its upgrade to HL-LHC , <i>Giornate di Studio sui Rivelatori</i>	28- 31 Oct 2014	Torino, Italy	Scientific Community, Policy Makers	--	Italy
<a href="#">290 CDS Link CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Alla scoperta della realtà: le nuove frontiere di Fisica e tecnologia al CERN	29 Oct 2014	Trieste, Italy	Civil Society	200	Italy
<a href="#">291 CDS Link CDS Link</a>	Oral Presentation to a wider public	Rossi, L. (CERN)	Che cos'è la Realtà? Come Conoscerla?	30 Oct 2014	Ferrara, Italy	Civil Society	300	Italy
<a href="#">292 CDS Link</a>	Status Report	Karppinen, M. (CERN)	New Mechanical Concept for Nb3Sn Quadrupole	30 Oct 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">293 CDS Link</a>	arXiv	Stancari, G (Fermilab) et al	Conceptual design of hollow electron lenses for beam halo control in the Large Hadron Collider	30 Oct 2014	Geneva, Switzerland	Scientific Community	--	International
<a href="#">294 CDS Link</a>	Oral Presentation to a Scientific Event	Markiewicz, T. (SLAC)	Advanced Collimators for Future Colliders or Status of R&D on Collimators for e+e- LCs & HL-LHC, <i>US-CERN-JAPAN-RUSSIA Joint International Accelerator School: Beam Losses and Accelerator Protection</i>	12 Nov 2014	Newport Beach, USA	Scientific Community	--	International
295	Oral Presentation to a wider public	Rossi, L. (CERN)	Alla scoperta della realtà: le nuove frontiere di Fisica e tecnologia al CERN	7 Nov 2014	Monza, Italy	Civil Society	50	Italy

296 <a href="#">Link</a>	Paper in proceedings of a Conference	Bertarelli, A. (CERN) et al	Novel Materials For Collimators At LHC And Its Upgrades, <i>Proceedings of HB2014, East-Lansing, MI, USA.</i>	10-14 Nov 2014	East-Lansing, MI, USA	Scientific Community	--	International
297 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	De Maria, R. (CERN) et al	The High Luminosity Challenge: Potential and Limitations of High Intensity High Brightness in the LHC and Its Injectors, <i>Proceedings of HB2014, East-Lansing, MI, USA.</i>	10-14 Nov 2014	East-Lansing, MI, USA	Scientific Community	--	International
298 <a href="#">CDS Link</a>	Oral Presentation to a Scientific Event	Redaelli, S. (CERN)	Beam Cleaning and Collimation Systems, <i>US-CERN-JAPAN-RUSSIA Joint International Accelerator School: Beam Losses and Accelerator Protection</i>	17 Nov 2014	Newport Beach, CA, USA	Scientific Community	--	International
299 <a href="#">Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 12	Dec 2014	Geneva, Switzerland	Civil Society, Scientific Community	--	International
300 <a href="#">CDS Link</a>	Status Report	Apollinari, G. (FNAL) et al	High Luminosity LHC Project Description	5 Dec 2014	Geneva, Switzerland	Scientific Community	--	International
301 <a href="#">Link</a>	Thesis	Santini, C.	Studio degli effetti del campo di radiazione sulle connessioni superconduttive per il progetto HiLumi LHC	18 Dec 2014	Milan, Italy	Scientific Community	--	International
302 <a href="#">CDS Link</a>	Status Report	Fitterer, M (CERN) et al	Crossing scheme and orbit correction in IR1/5 for HL-LHC	19 Jan 2015	Geneva, Switzerland	Scientific Community	--	International
303	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, il bosone di Higgs e le nuove frontiere dell'infinitamente piccolo al CERN di Ginevra	27 Jan 2015	Carate Brianza, Italy	Civil Society	90	Italy
304	Oral Presentation to a wider public	Rossi, L. (CERN) et al	LHC, il bosone di Higgs e le nuove frontiere dell'infinitamente piccolo al CERN di Ginevra	28 Jan 2015	Varese, Italy	Civil Society	200	Italy
305	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, il bosone di Higgs e le nuove frontiere dell'infinitamente piccolo al CERN di Ginevra	29 Jan 2015	Desio, Italy	Civil Society	130	Italy
306	Oral Presentation to a wider public	Rossi, L. (CERN)	Certi di cose mai viste... LHC, il bosone di Higgs e le nuove frontiere dell'infinitamente piccolo al CERN di Ginevra	29 Jan 2015	Lecco, Italy	Civil Society	250	Italy



307	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC, il bosone di Higgs e le nuove frontiere dell'infinitamente piccolo al CERN di Ginevra	30 Jan 2015	Piacenza, Italy	Civil Society	80	Italy
308	Oral Presentation to a wider public	Rossi, L. (CERN)	Oltre il bosone di Higgs: LHC riprende l'esplorazione al CERN	6 Mar 2015	Piacenza, Italy	Civil Society	100	Italy
309	Oral Presentation to a wider public	Rossi, L. (CERN)	A Glimpse into the Unknown: the Wonder that Inspires Scientific Discovery	31 Mar 2015	Houston, USA	Civil Society	80	USA
<a href="#">310 Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 13	Apr 2015	Geneva, Switzerland	Civil Society, Scientific Community	--	International
311	Oral Presentation to a wider public	Rossi, L. (CERN)	Au delà de nos limites: le LHC du CERN vers l'infiniment petit et l'origine de la matière	13 Apr 2015	Fribourg, Switzerland	Civil Society	80	Switzerland
<a href="#">312 CDS Link</a>	Article published in the popular press	Catapano, P. (CERN)	IYL2015 al CERN: Einstein, luce e ... luminosità, <i>Prima pagina</i> .	22 Apr 2015	Geneva, Switzerland	Civil Society	--	Italy
313	Oral Presentation to a wider public	Rossi, L. (CERN)	L'impresa scientifica e l'avventura umana	24 Apr 2015	Bologna, Italy	Civil Society	80	Italy
<a href="#">314 Link</a>	Paper in proceedings of a Conference	Fitterer, M. (CERN) et al	Beam Dynamics Requirements for the Powering Scheme of the HL-LHC Triplet, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i> .	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">315 Link</a>	Paper in proceedings of a Conference	De Maria, R. (CERN) et al	HLLHCv1.1 Optics Version for the HL-LHC Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i> .	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">316 Link</a>	Paper in proceedings of a Conference	De Maria, R. (CERN) et al	BPM Tolerances for HL-LHC Orbit Correction in the Inner Triplet Area, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i> .	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">317 Link</a>	Paper in proceedings of a Conference	Giovannozzi, M. (CERN) et al	Dynamic Aperture Studies for the LHC High Luminosity Lattice, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i> .	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International



318 <a href="#">Link</a>	Paper in proceedings of a Conference	Qiang, J. (CERN) et al	Beam-Beam Simulation of Crab Cavity White Noise for LHC Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
319 <a href="#">Link</a>	Paper in proceedings of a Conference	Qiang, J. (CERN) et al	Strong-Strong Beam-Beam Simulation of Bunch Length Splitting at the LHC, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
320 <a href="#">Link</a>	Paper in proceedings of a Conference	Valishev, A. (CERN) et al	Numerical Analysis of Parasitic Crossing Compensation with Wires in DAFNE, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
321 <a href="#">Link</a>	Paper in proceedings of a Conference	Fartoukh, S. (CERN) et al	An Alternative High Luminosity LHC with Flat Optics and Long-Range Beam-Beam Compensation, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
322 <a href="#">Link</a>	Paper in proceedings of a Conference	Crouch, M. (UNIMAN) et al	Analytical Approach to the Beam-Beam Interaction with the Hourglass effect, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
323 <a href="#">Link</a>	Paper in proceedings of a Conference	Crouch, M. (UNIMAN) et al	Strong-Strong Simulations of $\beta^*$ Levelling for Flat and Round Beams, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
324 <a href="#">Link</a>	Paper in proceedings of a Conference	Verdu-Andres, S. (BNL) et al	Design and Prototyping of HL-LHC Double Quarter Wave Crab Cavities, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
325 <a href="#">Link</a>	Paper in proceedings of a Conference	Li, Z. (SLAC) et al	FPC and Hi-Pass Filter HOM Coupler Design for the RF Dipole Crab Cavity for the LHC HiLumi Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
326 <a href="#">Link</a>	Paper in proceedings of a Conference	De Silva, S. (JLAB) et al	Design and Prototyping of a 400 MHz RF-dipole Crabbing Cavity for the LHC High-Luminosity Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International

<a href="#">327 Link</a>	Paper in proceedings of a Conference	Park, H. (JLAB) et al	Engineering Study of Crab Cavity HOM Couplers for LHC High Luminosity Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">328 Link</a>	Paper in proceedings of a Conference	Xiao, B. (BNL) et al	Higher Order Mode Filter Design for Double Quarter Wave Crab Cavity for the LHC High Luminosity Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">329 Link</a>	Paper in proceedings of a Conference	Xiao, B. (BNL) et al	Cryogenic Test of Double Quarter Wave Crab Cavity for the LHC High Luminosity Upgrade, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">330 Link</a>	Paper in proceedings of a Conference	Wu, Q. (BNL)	Crab Cavities: Past, Present, and Future of a Challenging Device, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">331 Link</a>	Paper in proceedings of a Conference	Garcia, H. (CERN) et al	Beam Cleaning in Experimental IRs in HL-LHC for Incoming Beam, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">332 Link</a>	Paper in proceedings of a Conference	Snuverink, J. (Royal Academi, U. London) et al	Beam Delivery Simulation - Recent Developments and Optimization, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">333 Link</a>	Paper in proceedings of a Conference	Bruce, R. (CERN) et al	Collimator Layouts for HL-LHC in the Experimental Insertions, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">334 Link</a>	Paper in proceedings of a Conference	Hermes, P. (CERN) et al	Betatron Cleaning for Heavy Ion Beams with IR7 Dispersion Suppressor Collimators, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
<a href="#">335 Link</a>	Paper in proceedings of a Conference	Quaranta, E. (CERN) et al	Updated Simulation Studies of Damage Limit of LHC Tertiary Collimators, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International

336 <a href="#">Link</a>	Paper in proceedings of a Conference	Quaranta, E. (CERN) et al	Collimation Cleaning at the LHC with Advanced Secondary Collimator Materials, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
337 <a href="#">Link</a>	Paper in proceedings of a Conference	Redaelli, S. (CERN)	Plans for Deployment of Hollow Electron Lenses at the LHC for Enhanced Beam Collimation, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
338 <a href="#">Link</a>	Paper in proceedings of a Conference	Rafique, H. (HUD)	Simulation of Hollow Electron Lenses as LHC Beam Halo Reducers using Merlin, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
339 <a href="#">Link</a>	Paper in proceedings of a Conference	Kwee, R. (Royal Accademy, U. London) et al	Beam Induced Background Simulation Studies at IR1 with New High Luminosity LHC Layout, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
340 <a href="#">Link</a>	Paper in proceedings of a Conference	Bignami, A. (CERN) et al	Energy Deposition and DPA in the Superconducting Links for the HILUMI LHC Project at the LHC Interaction Points, <i>Proceedings of IPAC 2015, Richmond, VA, USA, 3-8 May 2015.</i>	3-8 May 2015	Richmond, VA, USA	Scientific Community	--	International
341 <a href="#">CDS Link</a>	Scientific / Technical Note	Metral, E. (CERN) et al	HL-LHC Operational Scenarios	18 May 2015	Geneva, Switzerland	Scientific Community	--	International
342 <a href="#">Link</a>	Article	Szeberenyi, A. et al	Accelerating News Issue 14	Jun 2015	Geneva, Switzerland	Civil Society, Scientific Community	--	International
343 <a href="#">CDS Link</a>	Thesis / Dissertation	Ravaioli, Emmanuele (Twente U.) et al	CLIQ. A new quench protection technology for superconducting magnets	19 Jun 2015	Enschede, the Netherlands	Scientific Community	--	International
344	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	High Field Magnets for CERN's future accelerators	19 Jun 2015	Enschede, Netherlands	Scientific Community	50	International

345	Oral Presentation to a wider public	Rossi, L. (CERN)	LHC and next generation colliders at CERN	22 Jun 2015	Rome, Italy	Civil Society	80	Italy
346	Oral Presentation to a wider public	Rossi, L. (CERN)	L'avventura di uomini alla scoperta della struttura della materia. L'imprevisto e la possibilità dello stupore nella ricerca scientifica.	23 Jun 2015	Pescara, Italy	Civil Society	250	Italy
347	Oral Presentation to a wider public	Rossi, L. (CERN)	L'avventura di uomini alla scoperta della struttura della materia. L'imprevisto e la possibilità dello stupore nella ricerca scientifica.	24 Jun 2015	Chieti, Italy	Civil Society	300	Italy
348	Oral Presentation to a Scientific Event	Rossi, L. (CERN)	Workshop on Future Research Infrastructure; Challenges and Opportunities.	9 Jul 2015	Varenna, Italy	Scientific Community	80	International
349 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Zobov, M. (Frascati) et al	Simulation of Crab Waist Collisions In DAFNE With KLOE-2 Interaction Region, <i>Proceedings of IPAC15, Richmond, VA, USA, 3 - 8 May 2015</i>	24 Jun 2015	Richmond, USA	Scientific Community	--	International
350 <a href="#">CDS Link</a>	Paper in proceedings of a Conference	Zobov, M. et al	Numerical analysis of parasitic crossing compensation with wires in DAFNE, <i>Proceedings of IPAC15, Richmond, VA, USA, 3 - 8 May 2015</i>	24 Jun 2015	Richmond, USA	Scientific Community	--	International
351 <a href="#">CDS Link</a>	Scientific / Technical Note	Navarro-Tapia, M. (CERN) et al	Bead-Pull Measurements on the Fundamental Mode of the Double-Quarter-Wave Crab Cavity	6 Aug 2015	Geneva, Switzerland	Scientific Community	--	International
352	Thesis/Dissertation	Salmi, T.	Optimization of quench protection heater performance in high-field accelerator magnets through computational and experimental analysis	20 Aug 2015	Tampere, Finland	Scientific Community	--	International
353 <a href="#">CDS Link</a>	Article published in the popular press	Communication office (INFN)	HiLumi, at CERN the biggest particle physics project over the next decade	31 Aug 2015	Frascati, Italy	Scientific Community	--	International
354	Paper in proceedings of a Conference	Giannelli, S. (CERN) et al	Quench propagation in helium gas cooled MgB <sub>2</sub> cables, <i>Presented at EUCAS2015, Lyon, France, 6-10 Sep 2015</i>	6-10 Sep 2015	Lyon, France	Scientific Community	--	International

355	Paper in proceedings of a Conference	Hagner, M. et al	3D analysis of the porosity in MgB2 wires using FIB nanotomography, <i>Presented at EUCAS2015, Lyon, France, 6-10 Sep 2015.</i>	6-10 Sep 2015	Lyon, France	Scientific Community	--	International
356 <a href="#">CDS Link</a>	Status Report	Fartoukh, S (CERN) et al	Compensation of the long-range beam-beam interactions as a path towards new configurations for the High Luminosity LHC	14 Sep 2015	Geneva, Switzerland	Scientific Community	--	International
357 <a href="#">CDS Link</a>	Scientific Monograph	Rossi, L. (CERN) et al	The High Luminosity Large Hadron Collider: the New Machine for Illuminating the Mysteries of Universe	27 Oct 2015	Geneva, Switzerland	Civil Society, Scientific Community	--	International