

The Junior Community in ALICE

Hans Beck for the ALICE collaboration 07/07/2017

Contents

- 1. Structure of ALICE & its junior community
- 2. Juniors' activities within their group
- 3. Impact of juniors beyond their community
- 4. A survey: How helpful is the project?
- 5. Opinions from juniors and seniors

In ALICE "junior" means:
Bachelor, Master, and PhD students +
Postdocs within first 5 years of PhD

Behind most analyses is a junior



ALICE

- 1900+ members
- 700+ juniors
 - > 46% of signing authors

Organization

- Collaboration Board (CB)
 - Legislative body
- Management Board (MB)
 - Executive body
- Junior Representative participates in MB
- Juniors vote in the CB
 - > 93 institute + 3 junior votes
- Strong junior representation!



Computing

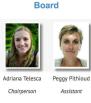
Board

Chairperson

Chairperson

Conference

Committee



Financial



Deputy Run Coordinator





Chairperson

Editorial

Board

Technical

Board

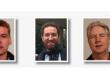
Arturo Tauro

Deputy









Physics

Board









Klaus Barth Andre Augustinus GLIMOS Deputy

Arturo Tauro Flammable Gas Safety Officer

Secretariat







Nathalie Gouriou

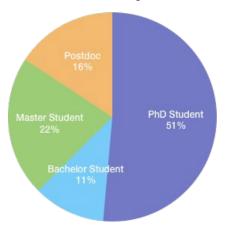
Guylaine Pachoud

Run Coordinator

How the juniors are organized

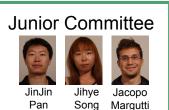
Representatives

Community



Committee

Organizes Junior's Day during ALICE Week



Ambassadors

- National contact person
- Raise country specific issues

28 Junior Ambassadors

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Brazil	Danilo Silva de Albuquerque	Japan	Hiroki Yokoyama
China	Jinjin Pan & Qiye Shou	Korea	Myunggeun Song
Croatia	Goran Simatovic	Mexico	Abraham Villatoro Tello
Czech Republic	Lada Ducheckova	Netherlands	Annelies Marianne Veen & Alberto Caliva
Denmark .	Christian Bourjau	Poland	Łukasz Graczykowski
Egypt	Ehab Gamal Abbas	Romania	Mihai Niculescu
Finland	Jussi Viinikainen	South Africa	Sibaliso Mhlanga
France	Audrey Francisco & Jana Crkovska	Sweden	Vytautas Vislavicius
Hungary	Monika Kofarago & Soňa Pochybova	Turkey	Serpil Yalcin
India	Rathijit Biswas, Rajendra Patra	UK	Jaime Norman
	& Shyam Kumar	USA	Raymond Ehlers
Italy	Anastasia Barbano		

Juniors Activities: Junior's Day

- Scientific presentations by juniors
 - > Typically first collaboration-wide presentation
 - Junior only audience
 - Broad range of topics covered
 - Opportunity to present service work
 - Welcoming and collegial atmosphere



Casual discussion, including basics, is encouraged

- Junior's dinner
 - Network and socialize



- Communication training
- Presentation skills
- ... much more!

Juniors Activities: Career Talks

- Presented by former ALICE juniors
 - Easy to identify with
- Show wide range of possible careers, specifically with training in ALICE
 - Positions in academia and industry

Juniors involvement in CERN initiatives

Students Careers Study

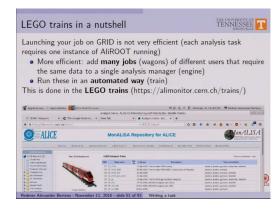
Career Networking Event

- How to:
 - translate HEP skills to other areas
 - apply for jobs
 - > present yourself
- Create and maintain job network



Juniors Activities: Analysis Tutorial

- Open to all, video added to website for later viewing
- Learn core analysis tools & procedures
 - > e.g. using ALICE analysis framework, GitHub, etc
- The place for newcomers to learn how to do analysis
- Also covers advanced analysis techniques



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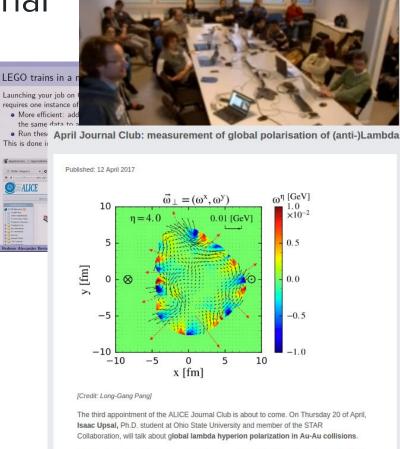


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Juniors Activities: Journal Club

- Monthly meeting open for everyone (also outside ALICE)
- Invited speaker chooses a paper
 - Presents a summary
 - Low-pressure discussion follows
- Already discussed a range of topics



The latest results on this topic, explained in a recent pre-print paper, have been submitted

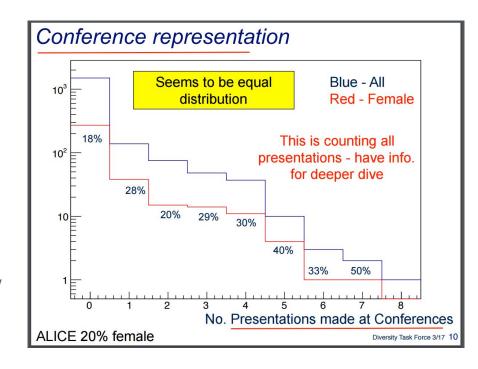
to Nature for publication.

How We Make a Difference in the Collaboration

- Bring forward effects of new rules/procedures on juniors
 - E.g. Publication policy and national rules for PhD graduation
- Junior contribute to every task force of the Collaboration Board, e.g.,
 - > Re-write of the constitution
 - > Improvements on publication speed
- Communication
 - > Seniors get to know junior viewpoint
 - Juniors learn and get involved in how the collaboration is run
- Different viewpoint on issues
 - > Strengthen decision making process by tapping diverse pool of ideas
- Bring up new ideas, e.g.,
 - > Effort for example analyses
 - Diversity Task Force

Diversity Task Force

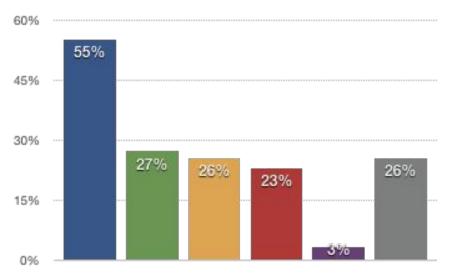
- Fact-finding team to investigate possible diversity issues within the ALICE collaboration
- Right: Statistics on gender balance in collaboration talks
- Collaboration-wide survey conducted
 Good participation, 500+ respondents
- Also found aspects to improve
 Being addressed by the collaboration now
- In general good idea to conduct a survey on possible diversity issues!



Survey Among Juniors - 120+ Respondents

Open for ideas how to get more feedback

How is the juniors group helpful?



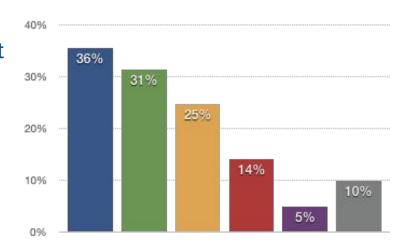
- Source of information
- Input on elections
- Networking
- Input on policy
- Other
- Not helpful/Unfamiliar

Juniors day

- 69% attended
- 20% gave a talk

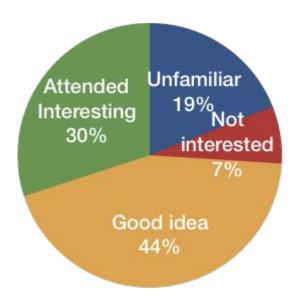
Junior Representatives

- Express opinion to management
- Role unclear
- Contact for specific problem
- Unknown
- No representation
- Other



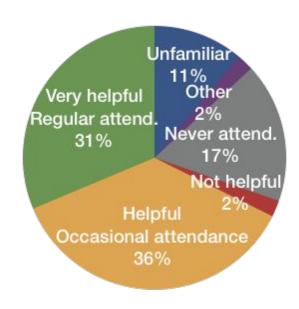
- Juniors on average < 3 years in ALICE</p>
- Clear need for improved communication

Journal Club



Vast majority interested

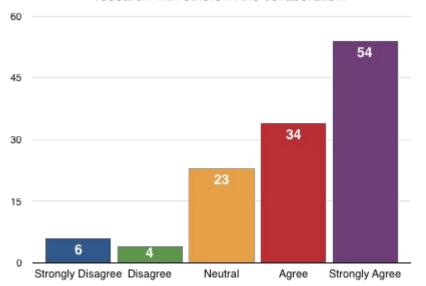
Analysis Tutorial

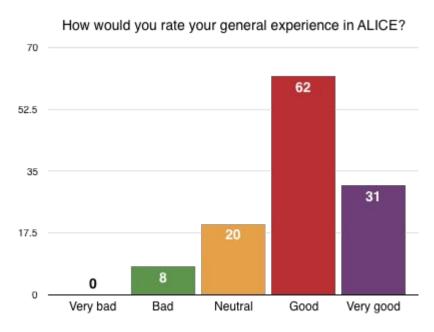


- Good attendance
- Well received

Monitoring ALICE Work Environment

I have opportunities to regularly present and discuss my research with others in the collaboration.





- Working constructively with Spokesperson team and others on improvements
- Good or very good climate

Opinions from Juniors

Kunal Garg, PhD student at the University of Catania

"Juniors helped me feel a **part of the community** at CERN, a sense of belonging. Also, juniors inspired me to be **more expressive.**"

James Mulligan, PhD student at Yale

"Over time, the tutorials have continued to improve my coding abilities as I contribute more code to the collaboration."

Sibaliso Mhlanga, PhD student at the University of Cape Town

"In South Africa 'UMUNTU NGUMUNTU NGABANTU' is a Zulu/Xhosa saying which means 'I am because you are.' It offers a powerful African concept that supports a deeper understanding of inclusion. It is a mind-set, a point of view, and a way of interacting with other people. With this concept, we do not not minimise or ignore differences, but inherently respect and include the other person out of the awareness that one's existence, position, work and success are only possible because of the value and role of the people they work with."

Opinions from our Senior Collaborators

Prof. Thomas Peitzmann (Utrecht), Physics Working Group Convener

"I find the ALICE journal club very useful, healthy for the collaboration and of significant educational value for everyone."

Prof. John Harris (Yale), Collaboration Board Chair

"[The Juniors group] contributed significantly to the climate and diversity in ALICE."

Opinions from our Senior Collaborators

Prof. Anju Bashin (Jammu), Management Board member

"[The juniors community is] bringing juniors [together] across borders and different backgrounds."

Federico Antinori, ALICE Spokesperson

"Students and young post-docs are the lymph of the collaboration. Without their enthusiasm, their dedication and their hard work, everything would come to a halt.

The juniors' organisation is a **precious asset** in ALICE, providing a very useful forum for the informal exchange of scientific, technical and career information among our younger colleagues. The presence of Junior Representatives in the Management and Collaboration Boards guarantees a **key two-way communication channel**, conveying the juniors' viewpoint to the decision making bodies, and providing a useful insight to the juniors on the many crucial issues that have to be addressed in order for the collaboration to run properly. **Everybody benefits** from this: the juniors, the management and the collaboration at large."

Summary

- Juniors group vital part of the collaboration
 - About half of signing authors are juniors
 - Actively engaged in decision making processes
- Provide head start for new collaborators
 - Highly appreciated analysis tutorial
 - Junior's day with educative talks and room for low-key questions
- Place for (self-)education
 - Physics, coding, career, respect for diversity, and more!

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Thank you for your time and attention! Any questions?