

String Phenomenology 2019 - CERN

Plenary [Main Auditorium]

Time	Mon 24	Tue 25	Wed 26	Thu 27	Fri 28
8:30	Registration				
Chair	Kiritsis	Luest	Conlon	Leontaris	Tatar
9:00	Shiu	Vafa	Palti	Ibanez	Schafer-Nameki
9:30	Grimm	Valenzuela	Uranga	Tomasiello	Martucci
10:00	Montero	Heidenreich	Taylor	Sethi	Garcia-Etxebarria
10:30	Coffee Break		CONFERENCE PHOTO Coffee Break	Coffee Break	
Chair	Faraggi	Quevedo	Kleban	Bianchi	Buchmueller
11:00	Marchesano	Grana	Westphal	Halverson	Quevedo
11:30	Savelli	Blumenhagen	Van Riet	Nelson	Cvetic
12:00	Gray	Wrase	Hebecker	Krippendorf	Faraggi
12:30	Lunch				
13:00					
13:30					
14:00					
Chair	Choi				Shiu
14:30	Caprini	Parallel A	Coffee break	Parallel A	Nardecchia
15:00	Parameswaran		CERN Colloquium		Choi
15:30	McAllister		Vafa		Heckman
16:00	Coffee Break			Coffee Break	
Chair	Acharya				Anderson
16:30	Ovrut	Parallel B		Parallel B	Luest
17:00	Lukas		CERN guided tours		Dudas
17:30	Anderson		CMS 17:00-18:00		Nilles
18:00			ALICE 17.30-18.30		
18:30	Reception		AM&DC 17:00-19:00		
19:00	CERN				
19:30	Restaurant 1				
20:00	(From 18:30)		Dinner		
20:30			Restaurant		
21:00			Cercle du Rhône		

Parallel [S1: Main Auditorium / S2: Council Chamber / S3: TH Conference Room 4-3-006]

TUESDAY			THURSDAY		
Session 1A	Session 2A	Session 3A	Session 1A	Session 2A	Session 3A
Leontaris	Dierigl	Uzawa	S. Luest	Andriolo	Rui Sun
Ashoorioon	Bonnefoy	Mehta	Retolaza	Buratti	Otsuka
Anguelova	Corvilain	Muia	Soler	Klaewer	Rogers
Angus	Gonzalo	Broeckel	Moritz	Schachner	Rosati
Witkowski	Herraez	Coudarchet	Roupec	V.d. Heisteeg	Rios
Calderon	Joshi	Welling	Terrisse	Wiesner	Leedom
Session 1B	Session 2B	Session 3B	Session 1B	Session 2B	
Khalil	Baume	Sichun Sun	Brinkmann	Svanes	
Hamada	Carta	Sfakianakis	Scalisi	Wang	
Cribiori	Lawrie	Tatsuta	Leonhardt	Constantin	
G.-Valdecasas	Lin	Masaki	Stout	Brodie	
Guidetti	Oehlmann	Muetter	Stott	Demirtas	
Quirant	Zoccarato	Percival			

Plenary Talks

Mon 24

Shiu	Branes and the Swampland
Grimm	Swampland conjectures at the limits in field space
Montero	A Strong WGC from the Modular Bootstrap
Marchesano	Instantons and Infinite Distances
Savelli	The Two Faces of T-branes
Gray	Chern-Simons and Heterotic Superpotentials
Caprini	Constraining the early universe with gravitational waves
Parameswaran	Dark Energy in String Theory
McAllister	de Sitter Vacua from Ten Dimensions
Ovrut	R-Parity Violating Decays of Chargino and Neutralino LSPs in the B-L MSSM
Lukas	Line Bundles in String Model Building
Anderson	A new approach to heterotic moduli and dualities

Tue 25

Vafa	A Swampland Update
Valenzuela	Asymptotic flux vacua and the Swampland
Heidenreich	The Weak Gravity Conjecture and Repulsive Forces
Grana	de Sitter vacua in string theory: the landscape or the swampland?
Blumenhagen	Three Swampland Variations
Wrase	Non-supersymmetric D-branes

Wed 26

Palti	Distance Conjecture and Potentials
Uranga	A discrete life in the swampland
Taylor	Generic matter and global gauge group structure in 6D and 4D supergravity and F-theory models
Westphal	Inflation as an Information Bottleneck
van Riet	Polarisation everywhere
Hebecker	The Flatness of Axionic Potentials and a 10d Approach to KKLT
Vafa	<i>Colloquium</i> : The String Landscape, the Swampland, and the Observed Universe

Thu 27

Ibanez	On Towers and Scalars
Tomasiello	String theory compactifications with sources
Sethi	Hope or No Hope for a String Landscape?
Halverson	Complexity and Random Matrix Approximations
Nelson	Deep Reinforcement Learning and the Type IIA Landscape
Krippendorf	Dualities in and from Machine Learning

Fri 28

Schafer-Nameki	What's new with G2?
Martucci	A 3-form exploration of the landscape
Garcia-Etxebarria	Anomalies in various dimensions
Quevedo	Moduli Stars and False Vacuum Bubbles
Cvetic	Landscape of F-theory Standard Models
Faraggi	String Phenomenology From a Worldsheet Perspective
Nardecchia	Flavour as probe of New Physics
Choi	String axiverse and gamma-ray spectral modulation of galactic pulsars
Heckman	F-theory and Dark Energy
Nilles	Unified Flavor- and CP-Symmetries from String Theory
Dudas	Sypersymmetry breaking and the swampland
Luest	Higher Spin Theories and the Swampland

Parallel Talks - Tuesday 25

Session 1A

Main Auditorium [Chair: Siampos]

Leontaris	Moduli stabilisation and inflation in a Type IIB/F-theory framework
Ashoorioon	Non-Minimal M-flation
Anguelova	Two-field Cosmological alpha-attractors with Noether Symmetry
Angus	O(D,D) completion of the Friedmann equations
Witkowski	Axion RG flows and a bound on axion excursions
Calderon	Transplanckian axion monodromy!?

Session 2A

Council Chamber [Chair: Lee]

Dierigl	Walls of Marginal Stability and the Swampland Distance Conjecture
Bonnefoy	Testing the weak gravity conjecture in type I strings with broken supersymmetry
Corvilain	The Swampland Distance Conjecture for Kähler moduli and emergence
Gonzalo	A Strong Scalar Weak Gravity Conjecture and Some Implications
Herraez	The Swampland Distance Conjecture and Towers of Tensionless Branes
Joshi	Swampland Distance Conjecture for One-Parameter Calabi-Yau Threefolds

Session 3A

Conference Room 4-3-006 [Chair: Parameswaran]

Uzawa	No-Go theorems for ekpyrosis from ten-dimensional supergravity
Mehta	Black Hole Superradiance Constraints on the KS Axiverse
Muia	Moduli Stars
Broeckel	Moduli Portal between visible and hidden sectors
Coudarchet	Spontaneous dark-matter mass generation along cosmological attractors in string theory
Welling	Shift Symmetric Orbital Inflation

Session 1B

Main Auditorium [Chair: Gnechhi]

Khalil	U(1)R inspired inflation model in no-scale supergravity
Hamada	Holography, relaxions and the self-tuning of the cosmological constant
Cribiori	The supersymmetric anti-D3-brane action in KKL
G.-Valdecasas	On the stability of SUSY breaking Warped Throats
Guidetti	Geometrical destabilisation of light fields in String Inflation
Quirant	A Landscape of AdS Flux Vacua

Session 2B

Council Chamber [Chair: Weigand]

Baume	Carving out the Swampland of 6D SCFTs
Carta	A CICY scan for orientifolds
Lawrie	Fibers and 5d SCFTs
Lin	Yukawa Hierarchies in Global F-theory Models
Oehlmann	F-theory on quotient elliptic threefolds
Zoccarato	T-branes in G2 backgrounds

Session 3B

Conference Room 4-3-006 [Chair: Nelson]

Sichun Sun	Gravitational waves from axion clumps
Sfakianakis	Observing axion potentials through gravitational waves
Tatsuta	Wavefunctions and their implications on S^2 with flux and branes
Masaki	Matrix model and Yukawa couplings on the magnetized noncommutative torus
Muetter	Discrete Flavor Symmetries from Orbifold GUTs
Percival	Classification of Left-Right Symmetric Heterotic String vacua

Parallel Talks - Thursday 27

Session 1A

Main Auditorium [Chair: Hebecker]

S. Luest	Uplifting Runaways
Retolaza	On non-perturbative effects on supersymmetric D-branes
Soler	On gaugino condensation in ten dimensions
Moritz	Gaugino condensation and small uplifts in KKLT
Roupec	Scaling limits of dS vacua and the swampland
Terrisse	Consistent truncation and de Sitter space from gravitational instantons

Session 2A

Council Chamber [Chair: Palti]

Andriolo	A Tower Weak Gravity Conjecture from Infrared Consistency
Buratti	Supersymmetry Breaking Warped Throats and the Weak Gravity Conjecture
Klaewer	Swampland Variations on a Theme by KKLT
Schachner	(Mis-)aligned Winding in and applying Genetic Algorithms to Type IIB String Theory
V.d. Heisteeg	Infinite Distances and the Axion Weak Gravity Conjecture
Wiesner	Instantons and Infinite Distances

Session 3A

Conference Room 4-3-006 [Chair: Dudas]

Rui Sun	M5 branes and Theta Functions
Otsuka	Cosmological constant at finite string coupling in F-theory flux compactification
Rogers	Branes, quiver gauge theories and discrete symmetries
Rosati	Multi-field Inflation in High-Slope Potentials
Rios	Triangulating the Landscape
Leedom	What does Inflation say about Dark Energy given the Swampland Conjectures?

Session 1B

Main Auditorium [Chair: Krippendorf]

Brinkmann	The dS Swampland Conjecture, Non-BPS branes and K-theory
Scalisi	de Sitter Vacua, Inflation and the Swampland
Leonhardt	Thraxions: Ultralight Throat Axions
Stout	Instantons Away From Equilibrium
Stott	Effective multi-axion cosmology and constraints from black hole superradiance

Session 2B

Council Chamber [Chair: Ruehle]

Svanes	Local Heterotic Reductions
Wang	SCFT sectors in F-theory landscape
Constantin	Topological formulae for line bundle cohomology
Brodie	Index Formulae for Line Bundle Cohomology on Complex Surfaces
Demirtas	The Calabi-Yau Hypersurface Landscape