

## String-Math 2024 | (SMR 3944)

10 Jun 2024 - 14 Jun 2024  
ICTP, Trieste, Italy

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**P01 - AGHAMIRMOHAMMADALI Nargessadat**

Near horizon dynamics and 2d warped Schwarzian theory

**P02 - ANUAR BUN ALIAS -**

Braneworld Geometrodynamics; Cases of Superluminal Travel and Wormhole Gravitational Wave.

**P03 - AMERI Mehdi**

JT gravity, Chaos, and Finsler Geometry

**P04 - BADDIS Saad Eddine**

Hypergeometric Inflation Scenarios in Swampland Program

**P05 - BARONE Emiliano Lautaro**

Strings on AdS3: Spectral flow and conformal blocks

**P06 - BARON Walter Helmut**

A non geometric symmetric sector of the string dualities can be realized effectively as a symmetry in the low energy action, even prior to any compactifications. We describe how it is realized in different string theories and how it constrains the allowed couplings at low energy.

**P07 - BASON Davide**

4d  $N = 2$  quiver BCFT data and S-duality

**P08 - BENDRISS Khalil**

Mock Modularity of Calabi-Yau threefolds

**P09 - BOFFO Eugenia**

BV and pictures of the spinning particle

**P10 - BOUJAKHROUT Youssra**

Superspin Chains and Line Defects in Superstring Theory

**P11 - CHOWDHURY Abhishek**

Counting  $N=8$  Black Holes as Algebraic Varieties

**P12 - DAS Sourav**

Moduli of Higgs bundles on singular curves

**P13 - FERRO Maximiliano Gabriel**

Mixed boundary conditions in AdS2/CFT1 from the coupling with a Kalb-Ramond field

**P14 - FILOCHE Baptiste Hugo**

Seiberg-Witten Geometry of D-type Little String Theories

**P15 - FOSBINDER-ELKINS Harry Louis**

No genus zero property for noninvertible monstrous defects

**P16 - GALDEANO SOLANS Mateo**

The heterotic G2 system on 3-( $\alpha$ ,  $\delta$ )-Sasaki manifolds

**P17 - GARCIA-VALDECASAS TENREIRO Eduardo**

Exploring the spontaneous and explicit breaking of (-1)-form symmetries.

**P18 - GUI Zhengping**

Trace Map on Chiral Weyl Algebras

**P19 - HANSON Robert Stephen**

The Dirac-Higgs complex

**P20 - HAOUZI Nathan Charles**

New Applications for Quantum Algebras in Mathematical Physics

**P21 - JAGADALE Mrunmay Milind**

Effective central charge for 3d N=2 theories

**P22 - JAROV Seraphim**

Computing the celestial chiral algebra of theories living on a double cover of twistor space

**P23 - KAKKAR Astha**

Partition Functions and Phases of Quantum Field Theories in Anti-de Sitter Spaces

**P24 - KAMAL Ahmed Rakin**

Realistic Brane-Antibrane Inflation

**P25 - KAWABATA Kohki**

Triality structure in chiral fermionic CFTs

**P26 - KHETRAPAL Surbhi**

Mutual information as a probe of quantum chaos and a new bound

**P27 - KULP Justin**

Twisted Tools for (Untwisted) Quantum Field Theory

**P28 - LEI Yang**

Modularity for higher dimensional free conformal field theory

**P29 - LINIADO Lippenholtz Joaquin**

Integrable Deformations from Twistor Space

**P30 - LI Xiaobin**

When Nekrasov partition function meets orientifold 5-plane in the thermodynamic limit

**P31 - LOPEZ RAVEN Adrian Khalil**

Algebraic Worldsheet and Homological Algebra

**P32 - MAJTARA Ideal**

Partition function of Argyres-Douglas theories on the blowup

**P33 - MATA PACHECO Daniel**

Lorentzian Vacuum Transitions in Canonical Quantum Gravity

**P34 - MAXWELL Katherine Alston**

Extended super Mumford form on the Sato Grassmannian

**P35 - MAZENC Edward**

Deriving the Simplest Gauge/String Duality

**P36 - MOITRA Upamanyu**

Entanglement in String Theory

**P37 - MOLETI Marina**

Calabi-Yau threefold flops as quiver varieties from monopole deformations

**P38 - MORGANTE Davide**

Cardy matches Bethe on the Surface: a Tale of a Brane and a Black Hole

**P39 - NOSHITA Go**

Gauge origami and quiver W-algebras

**P40 - PASQUARELLA Veronica**

Moore-Tachikawa Varieties: Beyond Duality

**P41 - PASSARO Davide**

3d Modularity Revisited

**P42 - PILATUS Paula Naomi**

Born Geometry

**P43 - PIOLINE Boris Samuel**

Quantum geometry, stability and mock modularity

**P44 - PRIBITOKS Antons**

Supersymmetric deformation of the  $CP^1$  model, conformal limits and exact  $\beta$ -function

**P45 - PRYOR Robert James**

B-branes in  $N=(2,2)$  Hybrid Models

**P46 - RASSOULI Sayyed Farbod**

Topological evolution of invariants on Seifert 3-manifolds in lower dimensional gravity

**P47 - ROMERO FONSECA Diego Arturo**

QUANTUM ERROR CORRECTION IN KITAEV'S QUANTUM DOUBLE MODEL FOR ABELIAN GROUPS

**P48 - SAHA Arnab Priya**

Field theory expansions of string theory amplitudes

**P49 - SANDEPUDI Bhanu Kiran**

Deformations of monoidal categories

**P50 - SCAZZUSO Davide**

BPS/CFT on the spectral curve

**P51 - SHCHECHKIN Anton**

Quantum Painleve tau functions expansions around irregular singularities

**P52 - SHUKLA Pramod Kumar**

On attempts to find the "right" Calabi Yau for string model building

**P53 - TORO Julian Hernan**

Spectral flow and the exact AdS3/CFT2 chiral ring in superstring theory

**P54 - VALACH Fridrich**

On generalised Ricci flow for Courant algebroids

**P55 - VATSAL -**

Fermionic Chern–Simons theory on  $S^2 \times S^1$  at large-N in the 'temporal' gauge

**P56 - VISHWA Girish Srinivasan**

Properties of the BRST Cohomology of Abelian Extensions of the Virasoro Algebra

**P57 - WANG Huan**

Singular holomorphic Morse inequalities on non-compact manifolds

**P58 - WANG Xin**

Refinement of compact elliptic CY 3-folds via Wilson loops

**P59 - WANG Zhizhen**

Renormalization in Donaldson–Witten Theory and its Applications

**P60 - YU Xingyang**

Generalized Symmetries in 2D from String Theory: SymTFTs, Relativeness, and Anomalies of Non-invertible Symmetries

**P61 - ZAPATA FIGUEROA Luis Felipe**

Absence of non-supersymmetric boundary conditions in M-theory

**P62 - ZHANG Xinyu**

Symmetries Hidden in 4D Gauge Theories