Invitations to Conferences, Workshops, and Colloquia

1.	MITP, JGU Mainz (Workshop Invite)	Mainz, Germany 2025
2	MITP. JGU Mainz (Workshop Invite)	Mainz Germany
	Physics and Number Theory (Upcoming)	2025
3.	IST, Lisbon (Workshop Invite)	Lisbon, Portugal
	Fall String Theory Workshop (Upcoming)	Oct. 2024
	Talk: On arithmetic statistics of weight 2 Hecke eigencuspforms	
4.	ESI Vienna (Workshop Invite)	Vienna, Austria
	Algebraicity and Transcendence for Singular Differential Equations (Upcoming)	Oct. 2024
5.	MIAPBP, Munich (Workshop Invite)	Munich, Germany
	Special Functions: From Geometry to Fundamental Interactions	Aug. 2024
6.	Uni. Potsdam (Colloquium Invite)	Potsdam, Germany
-	Taik: Developments in computer assisted number theory and arithmetic geometry	May 2024
7.	GGI Florence (Conference Invite)	Florence, Italy
	Talk: Real analytic Eisenstein series and quadratic forms in holography	Api./iviai 2024
8	INI Cambridge (Workshop Invite)	Cambridge UK
0.	Black Holes: Bridges Between Number Theory and Holographic Quantum Informatio	<i>n</i> Oct. 2023
	Talk: An introduction to the Birch & Swinnerton-Dyer Conjecture	
9.	INI Cambridge (Workshop Invite)	Cambridge, UK
	Black Holes: Bridges Between Number Theory and Holographic Quantum Information	n Oct. 2023
	Talk: $g = 2$ hyperelliptic curve invariants, Siegel modular forms and applications	
10.	Pollica Center for Physics (Workshop Invite)	Pollica, Italy
	New connections between physics and number theory	Jun. 2023
11.	Simons Center for Geometry and Physics (Workshop Invite)	Stony Brook, USA
	Talk: Modularity and rational curve counts on K3 surfaces	UCL-INOV. 2022
12	Simons Center for Geometry and Physics (Workshop Invite)	Stony Brook USA
12.	Workshop on Number Theory and Physics (Workshop mille)	OctNov. 2022
	Talk: Two applications of mock modular forms in string theory	
13.	Simons Center for Geometry and Physics (Workshop Invite)	Stony Brook, USA
	Workshop on Supersymmetric Black Holes, Holography and Microstate Counting	Nov. 2022
14.	Kavli IPMU (Colloquium Invite)	Kashiwa, Japan
	Talk: Physics and the Hilbert-Pólya conjecture	Oct. 2022
15.	Riemann Center for Geometry and Physics (Special Lecture)	Hannover, Germany
	Riemann Fellow Lecture	May 2022
	Talk: BPS Partition Functions: From physics, to number theory, to geometry	• • <i>• •</i> • • • •
16.	Kavii IPMU/U. lokyo (Colloquium Invite) I Talk: Quantum block balan: Bridges between methometics and physics I	okyo/Kashiwa, Japan
17	IST Liphon (Workshop Invite)	Lishen Dertugel
17.	Workshop on BPS Black Holes and Quantum Information	Sen 2021
	Talk: Generalized Siegel-Weil formula, Chern-Simons invariants and 3d-gravity	000.2021
18.	Koc Uni. & Bogazici Uni. (Conference Invite)	Istanbul, Turkey
	Mathematical Physics Days	Dec 2020
	Talk: Introduction to Moonshine in String Theory	
19.	IST Lisbon (Workshop Invite)	Lisbon, Portugal
	Black Holes: BMS, BPS and Integrability	Sep. 2020
	Ialk: IVIOCK-modular black hole entropy from negative discriminant states	

20.	Simons Center for Geometry and Physics (Workshop Invite) Workshop on Automorphic Structures in String Theory	Stony Brook, USA Mar. 2019
21.	Simons Center/Flatiron Institute (Conference Invite) Simons Conference on Number Theory, Geometry, Moonshine & Strings III	New York, USA Feb. 2019
22.	Uni Wien & TU Wien (Colloquium Invite) Talk: Auguries of Physical Mathematics	Vienna, Austria Nov. 2018
23.	Erwin Schroedinger Institute (Workshop Invite) Workshop on Moonshine Talk: Exact entropy and Rademacher series for CHL orbifolded BPS black holes	Vienna, Austria Sep. 2018
24.	GGI Florence (Workshop Invite) Supersymmetric Field Theories in the Non-perturbative Regime Talk: The M_{24} group and elliptic genera of $K3$ superconformal field theories	Florence, Italy Apr. 2018

Invited Lectures and Seminars

1.	TU Eindhoven (Seminar Invite) <i>Talk: TBD</i>	Eindhoven, Netherlands Dec 2024
2.	ETH Zurich (Seminar Invite) Talk: Computational aspects of the Langlands program	Zurich, Switzerland July 2024
3.	Uni. Vienna (Seminar Invite) <i>Talk: Characterization of Rational SCFTs via complex multiplication and mirror syn</i>	Vienna, Austria mmetry Apr. 2024
4.	TU Vienna (Seminar Invite) <i>Talk: Non-holomorphic Eisenstein series and quadratic forms in string theory</i>	Vienna, Austria Apr. 2024
5.	MPI-MIS (Seminar Invite) Talk: Rational point counts and motives for Feynman Integrals	Leipzig, Germany Mar. 2024
6.	L2C CNRS, Montpellier (Seminar Invite) Talk: Automorphic forms, Arithmetic and String Theory	Montpellier, France Mar. 2024
7.	MPI for Gravitational Physics (Seminar Invite)BTalk: Automorphic forms, Arithmetic and String TheoryB	erlin/Potsdam, Germany Feb. 2024
8.	IISc Bengaluru (Seminar Invite) Talk: Gravitational path integrals from number theory	Bengaluru, India May 2023
9.	ICTS Bengaluru (Lecture Invite) Lecture: Connections between number theory and physics	Bengaluru, India
10.	Part 1: Representation theory of automorphic forms, Part 2: L-functions University of Tokyo (Seminar Invite)	Apr. 2023 Tokyo, Japan
11.	Caltech (Seminar Invite) Talk: Gravitational path integral for $N = 4^{\frac{1}{2}}$ -BPS black holes from Siegel modular	Apr. 2023 Pasadena, USA
12.	Lehigh University (Seminar Invite) <i>Talk: The Hilbert-Polyá conjecture: A survey</i>	Bethlehem, USA Nov. 2022
13.	Cornell (Seminar Invite) Talk: BPS States and Niemeier Lattices: An Octonionic Supergravity Story	Ithaca, USA Nov. 2022
14.	Kavli IPMU (Seminar Invite) Talk: Class numbers and Hilbert modular forms in supergravity	Kashiwa, Japan Jun. 2022
15.	ICTP (Seminar Invite) Talk: Octonionic magical supergravity, Niemeier Lattices, and Hilbert Modular Ford	Trieste, Italy ms Jun. 2022
16.	Institut Henri Poincaré (Seminar Invite) Talk: Mock modularity from supergravity	Paris, France Jun. 2022
17.	DESY (Seminar Invite) Talk: Mock modularity from supergravity	Hamburg, Germany Jun. 2022

18.	LU Hannover (Seminar Invite) Talk: An introduction to moonshine and vertex operator algebras	Hannover, Germany May 2022
19.	LU Hannover (Seminar Invite)	Hannover, Germany
20.	IST Lisbon (Seminar Invite)	Lisbon, Portugal
	Talk: An introduction to topological modular forms, $\mathcal{N}=1$ VOA's, and error correction	n codes Dec. 2021
21.	LMU Munich (Seminar Invite) Talk: Mock modular black hole entropy from supergravity	Munich, Germany Nov. 2021
22.	TU Wien & Uni Wien (Seminar Invite) Talk: An introduction to topological modular forms. $\mathcal{N} = 1$ VOA's, and error correction	Vienna, Austria n codes Nov. 2021
23.	Kavli IPMU (Seminar Invite)	Kashiwa, Japan
	Talk: Mock modular black hole entropy from supergravity	Oct. 2021
24.	Nagoya U (Seminar Invite) Talk: Mock modular black hole entropy from supergravity	Nagoya, Japan Oct. 2021
25.	TU Wien & Uni Wien (Seminar Invite)	Vienna, Austria
	Talk: Generalized Siegel-Weil formula, Chern-Simons invariants, and 3d-gravity	Aug. 2021
26.	Kavli IPMU (Seminar Invite)	Kashiwa, Japan
	Talk: Comments on number theory and geometry in string theory	Oct. 2020
27.	Rutgers (Seminar Invite) <i>Talk:</i> Computing $\frac{1}{4}$ -BPS degeneracies and comments on instanton moduli spaces	New Brunswick, USA Apr. 2020
28.	ICTP (Seminar Invite)	Trieste, Italy
	Talk: Single center BH degeneracies in $4d$, $\mathcal{N} = 4$ string theory from Dabholkar–Harv	<i>yey states</i> Jan. 2020
29.	Stanford (Seminar Invite) Talk: Counting $\frac{1}{2}$ -BPS black holes in 4d. $\mathcal{N} = 4$ from $\frac{1}{2}$ -BPS degeneracies	Palo Alto, USA Dec. 2019
30	TII Wien (Seminar Invite)	Vienna Austria
50.	Talk: Wall crossing and jumping in string theory and supersymmetric gauge theories	Oct. 2019
31.	ICTS (Seminar Invite) Talk: Towards exact matching of black hole degeneracies from localization and numb	Bangalore, India ber theory Oct. 2019
32.	IISc (Seminar Invite) Talk: Towards exact matching of black hole degeneracies from localization and numb	Bangalore, India ber theory Oct. 2019
33.	TU Wien (Seminar Invite)	Vienna, Austria
04	Tark: Arithmetic chaos, zeroes of the Riemann $\zeta(s)$ function and topological recursion	ns Sep. 2019
34.	Talk: Comments on number theory and geometry for black holes	Paio Alto, USA Mar. 2016
35.	U. Amsterdam (Seminar Invite) Am Talk: Number theory and geometry for negative discriminant states in string theory	sterdam, Netherlands Feb. 2019
36.	Uni Wien (Seminar Invite)	Vienna, Austria
37.	MPP Munich (Seminar Invite)	Munich, Germany
	Taik: Automorphic properties of dyon wall crossing in string theory	NOV. 2018
38.	IST Lisbon (Seminar Invite) Talk: BPS algebras and moonshine phenomena	Lisbon, Portugal Oct. 2018
39.	IST Lisbon (Seminar Invite) <i>Talk:</i> $\Gamma_0(N)$, <i>quantum black holes, and wall crossing</i>	Lisbon, Portugal Oct. 2018
40.	IISc (Seminar Invite)	Bangalore, India
11	IMSc (Sominar Invito)	Channai India
41.	Talk: Calabi-Yau manifolds and sporadic groups	Dec. 2017

- 42. **Uni Wien** (Seminar Invite) Talk: Calabi-Yau manifolds and sporadic groups
- 43. Erwin Schroedinger Institute (Seminar Invite) Talk: Entanglement entropy in U(1) gauge theories
- 44. **TU Wien** (Seminar Invite) *Talk: Some constraints on superconformal field theories*

Vienna, Austria Nov. 2017 Vienna, Austria 2017 Vienna, Austria Oct. 2016