

## Program: Bethe Forum „Number Theoretic Methods in Quantum Physics“

**15. - 19.07.2019**

	MONDAY, 15.07.19	TUESDAY, 16.07.19	WEDNESDAY, 17.07.19	THURSDAY, 18.07.19	FRIDAY, 19.07.19
9:00 - 9:30	Registration				
9:30 - 10:30	<b>On the counting of states of AdS5 black holes in string theory</b> Sameer Murthy	<b>On the Hodge-GUE correspondence</b> Di Yang	<b>tba</b> Hartmut Monien	<b>Arithmetics of A- and B-branes</b> Johannes Walcher	<b>APS eta invariant, path integrals, and mock modularity</b> Atish Dabholkar
10:30 - 11:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11:00 - 12:00	<b>Periods and quasiperiods of modular forms and D-brane masses</b> Albrecht Klemm	<b>NAdS_2, Holography and Supersymmetric Black Holes</b> Stefan Förste	<b>Special values of regularized theta liftings</b> Jan Hendrik Bruinier	<b>Arithmetic of Calabi-Yau Periods</b> Duco van Straten	<b>Topological field theories and modular integrals</b> Jan Manschot
12:00 - 14:00	Lunch Break	Lunch Break	Lunch Break	Lunch Break	Lunch Break
14:00 - 15:00	<b>Automorphic properties of false theta functions</b> Kathrin Bringmann	<b>Aspects of Quantum K-Theory and 3d Gauge Theories</b> Hans Jockers	<b>Quantum Teichmuller theory and the Volume Conjecture</b> Stavros Garoufalidis	<b>Quantum multiplication of Hilbert schemes and Jacobi forms.</b> Georg Oberdieck	
15:00 - 15:30	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
15.30 - 16.30	<b>New kinds of modularity</b> Don Zagier		<b>Modularity and BPS states: from A to Z</b> Sergei Gukov	<b>X-valued cohomological field theory and tautological relations in the moduli space of stable maps</b> Hyenho Lho	
17:00 - 19:00	Reception in bctp				