

# Schedule of talks

All lectures will be held in the main lecture hall of the MPIM.

## Monday, May 25

<b>9:00 - 9:30</b>	<b>Tea</b>
<b>9:30 - 10:15</b>	Sander Zwegers <i>An account of the mock theta functions</i>
<b>10:25 - 11:05</b>	Don Zagier <i>Mock modular forms – theory and examples</i>
<b>11:20 - 11:50</b>	Jens Funke <i>Mock theta functions in the 70's: Hirzebruch-Zagier revisited</i>
<b>11:50 - 13:40</b>	<b>Lunch</b>
<b>13:40 - 14:25</b>	Jan Bruinier <i>Mock theta functions and infinite products</i>
<b>14:35 - 15:20</b>	Tonghai Yang <i>CM values of automorphic green functions and a variant of the Gross-Zagier formula</i>
<b>15:30 - 16:00</b>	Ozlem Imamoglu <i>Mock modular forms, cycle integrals and rational period functions</i>
<b>16:00 - 16:30</b>	<b>Tea</b>
<b>16:30 - 17:00</b>	Pavel Guerzhoy <i>Congruences for CM mock modular forms of integral weight. Splitting primes.</i>
<b>17:10 - 17:40</b>	Zachary Kent <i>Congruences for CM mock modular forms of integral weight. Inert primes. Applications to AGM.</i>

## Tuesday, May 26

<b>9:00 - 9:45</b>	Bruce Berndt <i>Ramanujan's contributions to theta functions</i>
<b>9:55 - 10:25</b>	Karl Mahlburg <i>Asymptotics for crank and rank moments</i>
<b>10:25 - 10:55</b>	<b>Tea</b>
<b>10:55 - 11:40</b>	Jeremy Lovejoy <i>q-series and class numbers</i>
<b>11:50 - 12:20</b>	Yun-Seo Choi <i>The basic bilateral hypergeometric series and the mock theta functions</i>
<b>12:20 - 13:55</b>	<b>Lunch</b>
<b>13:55 - 14:25</b>	Soon-Yi Kang <i>Traces of class invariants and Hilbert class polynomials for orders</i>
<b>14:35 - 15:05</b>	Paul Jenkins <i>Coefficient congruences for certain weakly holomorphic modular forms</i>
<b>15:15 - 16:00</b>	Sander Zwegers <i>Rank-crank type PDE's for higher level Appell functions</i>
<b>16:00 - 16:30</b>	<b>Tea</b>
<b>16:30 - 17:00</b>	Amanda Folsom <i>Kac-Wakimoto character formulas and universal mock theta functions</i>
<b>17:10 - 17:40</b>	Robert Osburn <i>Automorphic properties of generating functions for generalized rank moments and Durfee symbols</i>

## Wednesday, May 27

<b>9:00 - 9:45</b>	Nils Skoruppa <i>Weil representations of finite quadratic modules and Jacobi forms of critical weight</i>
<b>9:55 - 10:25</b>	Ben Kane <i>Multiplicative <math>q</math>-hypergeometric series and real quadratic UFDs</i>
<b>10:25 - 10:55</b>	<b>Tea</b>
<b>10:55 - 11:40</b>	Solomon Friedberg <i>Metaplectic Eisenstein series, twisted Euler products, and crystal graphs</i>
<b>11:55 - 12:25</b>	YoungJu Choie <i>Period relations for Jacobi forms</i>
<b>12:25 - 14:30</b>	<b>Lunch</b>
<b>14:30 - 15:15</b>	Valery Gritsenko <i>The Siegel modular forms with the simplest divisor</i>
<b>15:30 - 16:00</b>	Aloys Krieg <i>Lattices with a complex structure and their modular forms</i>
<b>16:00 - 16:30</b>	<b>Tea</b>

## Thursday, May 28

9:00 - 9:45	Lothar Goettsche <i>Wallcrossing, theta functions, and strange duality for line bundles on moduli spaces of sheaves on algebraic surfaces</i>
9:55 - 10:25	Kazuhiro Hikami <i>Superconformal algebras and mock theta functions</i>
10:25 - 10:55	<b>Tea</b>
10:55 - 11:25	Andreas Malmendier <i><math>SO(3)</math>-Donaldson invariants of <math>\mathbf{CP}^2</math> and mock theta functions</i>
11:35 - 12:20	Atish Dabholkar <i>Quantum black holes and mock modular forms</i>
12:20 - 14:00	<b>Lunch</b>
14:00 - 14:45	Werner Nahm <i><math>q</math>-hypergeometric functions in quantum field theory</i>
15:00 - 16:00	Don Zagier <i>Quantum modular forms</i>
16:00 - 16:30	<b>Tea</b>
16:30 - 17:00	Scott Ahlgren <i>Congruences for cusp forms of half-integral weight</i>
18:00	<b>Conference dinner at <i>Ristorante - Pizzeria Tuscolo</i> (Kaiser-Karl-Ring 63)</b>

## Friday, May 29

<b>9:00 - 9:45</b>	Winfried Kohnen <i>Sign changes of Fourier coefficients of modular forms of half-integral weight</i>
<b>10:00 - 10:30</b>	Lynne Walling <i>Quadratic forms, Siegel modular forms, and a Hecke correspondence</i>
<b>10:30 - 11:00</b>	<b>Tea</b>
<b>11:00 - 11:30</b>	David Yuen <i>Weight 8 Siegel forms for the theta group</i>
<b>11:40 - 12:10</b>	Cris Poor <i>Sets of Fourier coefficients that determine congruence in genus two</i>
<b>12:10 - 13:50</b>	<b>Lunch</b>
<b>13:50 - 14:20</b>	Bernhard Heim <i>Recovering class numbers from special <math>L</math>-values</i>
<b>14:30 - 15:00</b>	Dohoon Choi <i>Poincare series and the divisors of modular forms</i>
<b>15:00 - 15:30</b>	<b>Tea</b>