

# Tentative Schedule

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## Day One: December 23, 2010

### Morning

9:00–10:30 Opening Ceremony

10:30–11:00 Tea Break

Chair: S.-T. Yau

11:00–12:00 David Gross: Physics and the Mathematics at the Frontier

### Afternoon

Chair: S.-T. Yau

2:00–2:45: John Tate: Elliptic Curves in the 20th Century

2:45–3:30: Benedict Gross: Stable Orbits in Group Representations and the Arithmetic of Elliptic Curves

3:30–4:00: Tea Break

4:00–4:45: Robbort Dijgraaf: The Quantum Geometry of Matrix Models

4:45–5:30: Vaughan Jones: The onset of wildness

Dinner: 6:00–

### Evening

8:00–10:00 Panel Discussions

## Day Two: December 24, 2010

### Morning

Chair: S.-Y. Cheng

9:00–9:45 Bjorn Engquist: Multiscale Methods for Wave Propagation

9:45–10:30 Zhou-Ping Xin: On Multi-Dimensional Compressible Navier-Stokes Systems

10:30–10:45 Tea Break

10:45–11:30 Hiroshi Ooguri: Topological String Theory

11:30–12:15 Chang-Shou Lin: Liouville System of Mean Field Equation

12:15–2:00: Lunch Break

### Afternoon

Chair: H.-D. Cao

2:00–2:45 Jean-Marc Fontaine: Factorisation of Analytic Functions in Mixed Characteristic

2:45–3:30 Ib Madsen: Moduli Spaces and Topology

3:30–4:00 Tea Break

4:00–4:45 Ker-Chau Li: A Theory of Extreme p-values: How Many Best Results Are Real ?

4:45–5:30 Jun Liu: Beyond the Naive Bayes Classifier

Evening

6:00–7:00 Reception

7:00pm– Dinner & Party

Day Three: December 25, 2010

Conference Excursion

Day Four: December 26, 2010

Morning

Chair: S.-Y. Cheng

8:30–9:15 Wilfried Schmid: Hodge Theory and Unitary Representations of Reductive Lie groups

9:15–10:00 Jun Li: A New Class of Virtual Cycles & Applications to GW and DT Invariants

10:00–10:15 Tea Break

Chair: S.-T Yau

10:15–11:00 Richard Hamilton: Canonical Neighborhoods for the Ricci Flow

11:00–11:45 Sijue Wu: Well-posedness of the Two and Three Dimensional Full Water Wave Problem