

# GEOMETRY OF STRING THEORY

*2005 Simons Workshop in Mathematics and Physics*

*Stony Brook University, July 25 - August 26*

*C.N. Yang Institute for Theoretical Physics*

*and Department of Mathematics*

**Participants Include:**

*\* To be confirmed*

*Nathan Berkovits (Sao Paolo)*

*Frederik Denef (Rutgers)*

*Michael Douglas (Rutgers & IHES)*

*Dan Freed (Austin)*

*Brian Greene (Columbia) \**

*Amir Kashani-Poor (Stanford & SLAC)*

*Sheldon Katz (Illinois)*

*Albrecht Klemm (Madison)*

*Juan Maldacena (IAS)*

*Greg Moore (Rutgers)*

*Michael Moshéev (UC Davis)*

*Hiroshi Ooguri (CalTech)*

*Rahul Pandharipande (Princeton) \**

*Sav Sethi (Chicago)*

*Eva Silverstein (Stanford & SLAC)*

*Cumrun Vafa (Harvard)*

*Edward Witten (Princeton, IAS)*

*Shing-Tung Yau (Harvard) \**

**Scientific Advisor:** *Cumrun Vafa (Harvard)*

**Local Coordinator:** *Martin Roček*

**Local Participants Include:**

*Sebastian*

*Casalaina-Martin*

*Alastair Craw*

*Alfred Goldhaber*

*Detlef Gromoll*

*C. Denson Hill*

*Jerome Jenquin*

*Alexander Kirillov*

*Vladimir Korepin*

*Blaine Lawson*

*Claude LeBrun*

*William Linch*

*Misha Lyubich*

*Ari Pakman*

*Sorin Popescu*

*Leonardo Rastelli*

*Martin Roček*

*Robert Shrock*

*Warren Siegel*

*George Sterman*

*Dennis Sullivan*

*Leon Takhtajan*

*Brenno Vallilo*

*Peter van Nieuwenhuizen*

*The Simons Workshops focus on the interaction between physics and mathematics, particularly in the context of string theory. A deeper understanding of the geometry of string compactification has become increasingly important in connecting string theory to the real world, in the context of early universe cosmology as well as collider physics. This workshop reviews recent progress in these directions.*

*For information: <http://insti.physics.sunysb.edu/itp/conf/simonswork3/>*

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Department of Mathematics*