

Title: Topics on Mirror Symmetry
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I plan to give a topics course on the mathematical aspects of super string theory in the Spring semester. I will start from the very basic concepts (differential geometry, equivariant cohomology, localization, etc.), and then gradually introduce the _basics_ of some advanced topics such as moduli of stable maps, Gromov-Witten invariants, and Mirror Symmetry Conjecture. I will follow the mathematical parts of the following book

"Mirror Symmetry " by Hori, Katz, Klemm, Pandharipande, Thomas, Vafa, Vakil, Zaslow.

<http://books.google.com/books?id=uGYRaAhFGx0C&dq=&pg=PP1&ots=Bq4LNjJJKU&sig=21c9wov0aYTcFsAz6f9jml8wjrjw&prev=http://www.google.com/search%3Fhl%3Den%26q%3Dmirror%2Bsymmetry&sa=X&oi=print&ct=title>