

“Mathematics are well and good but nature keeps dragging us around by the nose.” —Albert Einstein

## The Trivial Notions Seminar Proudly Announces

### Mirror Symmetry and Predicting Enumerative Invariants

A talk by  
Yu-Shen Lin

#### **Abstract**

Mirror symmetry relates the A-model of a given Calabi-Yau manifold with the B-model of its mirror. The former associates its Yukawa coupling with counting rational curves on the ambient Calabi-Yau manifold while the latter associates its Yukawa coupling with period integrals and variation of Hodge structure. The amazing thing is that period integrals involve no quantum corrections and are easier to compute. Assuming some physics, one can predict the number of rational curves of given degree on a generic quintic via a simple period calculation.

Thursday, April 9<sup>th</sup> at 2:07 pm  
Science Center 507