

*Department of Mathematics,  
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# **Conference on Tropical Geometry and Mirror Symmetry**

## **Prof. Yongbin Ruan**

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## **Landau-Ginzburg/Calabi-Yau correspondence**

### **Abstract:**

A far reaching correspondence from physics suggests that the Gromov-Witten theory of a Calabi-Yau hypersurface of weight projective space (more generally a toric variety) can be computed by the singularity theory of its defining polynomial. In this talk, I will present some of works (jointly with Alessandro Chiodo) towards establishing this correspondence mathematically as well as some of surprises and speculations.

Talk time runs to 10:30 AM.

## **Saturday, February 13, 2010**

### **9:30 AM**

### **AP&M 6402**

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