

MSRI–Evans Talk

Monday, 4:10–5:00pm, 60 Evans

Feb. 27 **Yongbin Ruan**, University of Michigan, MSRI, Clay Mathematics Institute

Why quantum? – a mathematician’s perspective

A physical theory often starts from a classical system and then quantizes the classical system. Classical systems usually can be described rather easily in mathematics. However, quantization has always been mysterious to the mathematician. The main aim of the talk is to discuss the mathematical motivation of quantization. We will do it by studying two examples: McKay correspondence and singularity; Calabi–Yau correspondence.