

*Department of Mathematics,
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Department Colloquium

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Intrinsic Mirror Symmetry

Abstract:

Mirror symmetry was a phenomenon discovered by physicists around 1989: they observed that certain kinds of six-dimensional geometric objects known as Calabi-Yau manifolds seemed to come in pairs, with a strange relationship between different kinds of geometric objects on the pairs. Since then, the subject has blossomed into a vast field, with many different approaches and philosophies. I will give a brief introduction to the subject, and explain how one of these approaches, developed with Bernd Siebert, has led to a general construction of mirror pairs.

James McKernan

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