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Open Mirror Symmetry on the Quintic

The physics of string theory leads to interesting enumerative results for curves in Calabi–Yau manifolds. The most recent example concerns the number of holomorphic disks ending on the real Lagrangian in the quintic three-fold. This prediction has now been proven and can also be interpreted in the context of homological mirror symmetry.

The open mirror theorem is joint work with R. Pandharipande and J. Solomon.