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hypersurfaces

(Submitted on 30 Apr 2012)

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literature. We also obtain analogous results for complete intersections.

Lagrangian fibrations on blowups of toric

We consider mirror symmetry for (essentially arbitrary) hypersurfaces in (possibly noncompact) toric varieties from the perspective of the Strominger-Yau-Zaslow (SYZ) conjecture. Given a hypersurface

\$H\$ in a toric variety \$V\$ we construct a Landau-Ginzburg model which is SYZ mirror to the blowup

of \$V\times\C\$ along \$H\times 0\$, under a positivity assumption. This construction also yields SYZ mirrors to affine conic bundles, as well as a Landau-Ginzburg model which can be naturally viewed

results provide a geometric basis for various mirror symmetry statements that appear in the recent

as a mirror to \$H\$. The main applications concern affine hypersurfaces of general type, for which our

varieties and mirror symmetry for

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