Lagrangian Floer theory and mirror symmetry on compact toric manifolds

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Abstract:

I will explain how Lagrangian Floer theory for torus fibers in a compact toric manifold is governed by the so-called potential function after joint works by Fukaya, Oh, Ohta and myself.   I would also like to mention a generation criterion for Fukaya category and, in particular, the Fukaya category of a compact toric manifold is split-generated by objects corresponding to critical points of the potential function based on our (FOOO) joint work with Abouzaid.