

SYMPLECTIC LANDAU-GINZBURG MODELS AND THEIR FUKAYA CATEGORIES

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Abstract: This partly expository talk focuses on the notion of “symplectic Landau-Ginzburg models”, i.e. symplectic manifolds equipped with maps to the complex plane, “stops”, or both, as they naturally arise in the context of mirror symmetry. We describe several viewpoints on these spaces and their Fukaya categories, their monodromy, and the functors relating them to other flavors of Fukaya categories. (This touches on work of Abouzaid, Seidel, Ganatra, Hanlon, Sylvan, Jeffs, and others).