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Hiro Lee Tanaka*, Math Department, 1 Oxford St, Cambridge, MA 02138. *Cobordism theory for Lagrangians and Homological mirror symmetry over spectra.*

We'll talk about a project to enrich homological mirror symmetry over the sphere spectrum. While there are at least three ways to do this, we'll talk about a way involving a symplectic and non-compact version of cobordism theory. A lot of new math comes up because this cobordism theory doesn't obviously yield to classical, Pontrjagin-Thom type methods. (Received August 15, 2016)