

1165-53-41

Haniya Azam, Catherine Cannizzo, Heather Lee* (heatherlee.math@gmail.com) and **Chiu-Chu Melissa Liu**. *Global homological mirror symmetry for genus two curves*. Preliminary report.

Cannizzo's thesis proved an HMS result with the B-model being the bounded derived category of coherent sheaves on genus two curves and the A-model being the Fukaya-Seidel category on the Landau-Ginzburg mirror (Y, W) , where Y is a locally toric Calabi-Yau 3-fold and $W : Y \rightarrow \mathbb{C}$ is a symplectic fibration. Cannizzo's thesis is for a one parameter family of complex parameters on the genus two curve. We upgrade her result to include all complex parameters and the corresponding Kähler parameters of the mirror, (Received January 09, 2021)