1154-14-1019   **Felix Janda*** (`janda@umich.edu`), 1 Einstein Drive, Princeton, NJ 08540. *All genus Landau–Ginzburg/Calabi–Yau correspondence.* Preliminary report.

The Landau–Ginzburg/Calabi–Yau (LG/CY) correspondence is a physical correspondence between topological strings on a Calabi–Yau manifold and the corresponding Landau–Ginzburg singularity model. Witten established it as an instance of GLSM wall-crossing. In mathematics, in the example of quintic threefolds, Chiodo–Ruan have formulated and established the correspondence in genus zero. It is an explicit relationship between Gromov–Witten and FJRW invariants of quintics.

In my talk, I will discuss joint work in progress with S. Guo and Y. Ruan on the higher genus LG/CY correspondence for quintic threefolds. (Received September 12, 2019)