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Colin Diemer* (cdiemer@gmail.com), 1200 Mariposa Ave, E202, Miami, FL 33146. *Mirror symmetry of GIT quotients.*

We will discuss attempts to understand the homological mirror symmetry conjecture at the level of GIT quotients. Recently, Kontsevich has proposed conjectures which involve relating the "Lagrangian skeleton" approach to mirror symmetry to the "grade restriction rules" of Herbst-Hori Page. Even in the toric case homological mirror symmetry is quite subtle from the perspective of Cox quotients, and so new ideas such as these are essential, even in elementary cases. This is based on a joint work with M. Ballard, D. Favero, and M. Kontsevich. (Received September 15, 2014)