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Anatoly Libgober* (libgober@uic.edu), Department of Mathematics, University of Illinois at Chicago, 851 S.Morgan Street., Chicago, IL 60607. *Singular and Virtual elliptic genera*. Preliminary report.

We compare invariants of singular varieties with values in the ring of Jacobi forms introduced in the works of Borisov-Libgober and Fantechi-Gottsche. We will discuss their role in mirror symmetry as well as the study of conifold and extremal transitions. (Received September 12, 2019)