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Renzo Cavalieri* (renzo@math.colostate.edu), Weber Building, Oval Drive, Fort Collins, CO 80524, and **Dustin Ross** (ross@math.colostate.edu), Weber building, Oval Drive, Fort Collins, CO 80523. *Open Orbifold GW Invariants.*

Open GW theory refers to the study of maps from Riemann Surfaces with boundary into a target manifold, where the boundary is constrained to map to a fixed Lagrangian submanifold. The physical theory of open strings gives several predictions for virtually enumerative invariants related to these kind of problems. I will discuss a computational (mathematical) framework to make sense of open GW invariants in the case of a toric orbifold target, and present some results, applications, speculations and work in progress in joint work with Andrea Brini (Geneva) and Dusty Ross (CSU).

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