

1165-14-35

**L J Barrott\*** (lawrencebarrott@gmail.com) and **N Nabijou**. *Relative curve counting on surfaces via degeneration.*

Log Gromov-Witten theory encodes counts of curves on a target with tangency orders to a collection of normal crossings divisors on that surface. Even for toric targets the most interesting cases occur when the divisor is not toric. In particular the familiar powerful techniques of torus localisation cannot be directly applied.

I will review work of myself and Navid Nabijou on the surface case, where we build an intervening theory which allows one to degenerate a non-toric divisor to the toric boundary, and deduce curve counts using localisation techniques.

If time permits I will discuss the link between this and the scattering diagrams appearing in work of Tim Grafnitz. (Received January 09, 2021)