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Dan Abramovich, Steffen Marcus* (marcus@math.utah.edu) and **Jonathan Wise.** *A comparison theorem for relative Gromov-Witten theories.*

The Gromov–Witten (GW) theory of a smooth variety X relative to a smooth divisor D gives a virtual count of curves in X with prescribed tangency conditions along D . In the algebraic setting, relative GW invariants have been defined using Jun Li’s moduli space of relative stable maps parameterizing maps into expansions. More recent variants have introduced orbifold techniques and logarithmic structures. In this talk I will describe a theorem comparing several different ways of defining relative GW invariants. This is joint work with Dan Abramovich and Jonathan Wise. (Received December 14, 2011)