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Simon CF Rose* (simon@mast.queensu.ca), Department of Math Stats, Jeffery Hall University Ave, Kingston, Ontario K7L3N6, Canada. *Reduced Gromov-Witten theories and the crepant resolution conjecture*. Preliminary report.

It is known that the Gromov-Witten invariants of any surface with $h^{2,0} > 0$ must be trivial, as any curve class can be deformed so as to be non-algebraic. We will provide an overview of the different constructions of reduced virtual fundamental classes that exist in the literature, as well as go over the relationship between the crepant resolution conjecture and its reduced version. (Received February 11, 2013)