The differential structure on moduli spaces of
(instantons and others)

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Abstract

It is well known that one may define invariants from moduli spaces. To achieve this, one plays intersection theory in the moduli spaces for many cases (e.g., Donaldson invariants and Gromov-Witten invariants). In this talk, we would like to explain how to construct differential structures on moduli spaces for some cases so that we can play with integrations. In particular, the case for Donaldson moduli space is explained.