



Contribution ID: 13

Type: **not specified**

## Gravity properad, moduli spaces $M_{g,n}$ , and string topology

*Wednesday, August 31, 2022 11:00 AM (50 minutes)*

Using Thomas Willwacher's twisting endofunctor, and Kevin Costello's theory of partially compactified moduli spaces of algebraic curves of arbitrary genus with marked points, we introduce a new dg properad which contains Ezra Getzler's operad controlling genus zero moduli spaces. We discuss its applications in the theory of moduli spaces  $M_{g,n}$ , and in string topology

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