

Gromov-Witten invariants on Grassmannians

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Abstract

We describe recent and ongoing work with Anders Buch and Andrew Kresch, which shows that the three point genus zero Gromov-Witten invariants on Grassmannians are related to classical intersection numbers on homogeneous spaces of the same Lie type. One application is a conjectural quantum Littlewood-Richardson rule, phrased using Knutson's language of puzzles.