BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

POWER OPERATIONS AND 3D MIRROR SYMMETRY

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Abstract: 3D mirror symmetry posits a duality between pairs of resolutions of symplectic singularities, with one notable class of examples given by the Higgs/Coulomb branch duality associated with a reductive group G and a representation V. One manifestation is identifying the enumerative geometry of Higgs branch with certain information encoded in the quantized Coulomb branch. In this talk, I will discuss the role of power operations in 3D mirror symmetry, including quantum deformations of Adams operations and Steenrod operations. I will also discuss the relation between quantum power operations and p-curvatures of (q-difference) quantum connection. This is joint work with Jae Hee Lee.

See `http://math.bu.edu/research/geom/seminar.html` or contact Siu-Cheong Lau (*scllouis@bu.edu*) or Brian Williams (*bwill22@bu.edu*) for more information.