

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

**AN LG/LG MIRROR THEOREM BETWEEN  
MATRIX FACTORIZATIONS AND PRIMITIVE  
FORMS**

Yefeng Shen  
The University of Oregon

February 27, 2019, 4:00 – 5:00pm  
Math/Computer Science, Room 148  
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

**Abstract:** A few years ago, He-Li-Shen-Webb proved that the Fan-Jarvis-Ruan-Witten theory (LG A-model) of almost all invertible quasihomogeneous polynomials with maximal diagonal symmetries is equivalent to the Saito-Givental theory (LG B-model) of the mirror polynomials. The result is not known for some special chain type polynomials. We can remove the constraints by replacing the A-model with a reduced Cohomological Field Theory of matrix factorizations, constructed by Polishchuk and Vaintrob. This is a joint work in progress, with He, Polishchuk, and Vaintrob.

See <http://math.bu.edu/research/geom/seminar.html> or contact Yoosik Kim ([yoosik@bu.edu](mailto:yoosik@bu.edu)) or Siu-Cheong Lau ([lau@math.bu.edu](mailto:lau@math.bu.edu)) for more information.