

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

POISSON VERTEX SIGMA MODELS

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CCDS 365, October 1, 2025, 4-5pm

Abstract: I will discuss a three-dimensional holomorphic-topological version of the standard two-dimensional Poisson sigma model. It is defined from the data of a Poisson vertex algebra, and specializing to well-known PVAs recovers theories such as perturbative Chern-Simons, three-dimensional gravity, and higher spin theories. I'll remark on how this connects to the deformation quantization problem of Poisson vertex algebras.

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