## Mathematical Physics Seminar, Ilya Dumanski, MIT

Wednesday, Mar 22nd 1:30 - 2:30pm

**Title:** Geometric approach to Feigin-Loktev fusion product

**Abstract:** Feigin-Loktev's fusion product of cyclic graded modules over the current algebra was introduced in 1998. Although its definition is elementary, very little is known about its properties in general. We introduce a way to study it geometrically. This approach also gives Borel-Weil-type theorems for the Beilinson-Drinfeld Grassmannian and the global convolution diagram. We will also discuss a relation to the quantum loop group representations.

Zoom Link: <u>Math/physics Seminar</u> Password: 433644