

Algebra/Topology Seminar

CHUNLIN SHAO

University of Massachusetts Amherst

ZASTAVA SPACES AND FACTORIZATION STRUCTURES

Thursday, April 23, 2026
3:00 p.m. in Massry B012

ABSTRACT. Zastava spaces arise as compactifications of moduli spaces of maps from a curve into the flag variety of a reductive group. They are closely related to the geometry of the affine Grassmannian, a central object in geometric representation theory.

In this talk, I will focus on a generalized version of Mirković's zastava spaces, which can be viewed as refinements of the classical construction. I will first explain how this construction arises from a factorization structure in the sense of Beilinson–Drinfeld together with combinatorial data from the root system. I will also describe new symmetry structures that do not appear in the classical setting.