

# ***ALGEBRAIC GEOMETRY AND COMMUTATIVE ALGEBRA SEMINAR***

**Speaker: Fan Qin**

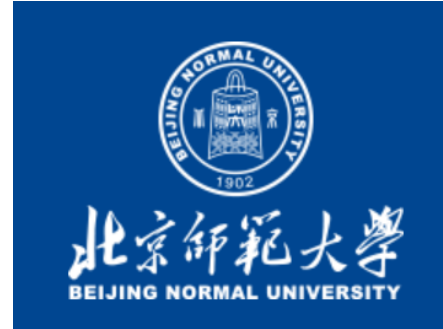
**Beijing Normal University**

**Date:** Tuesday, April 16, 2024

**Time:** 3:30 PM

**Location:** 258 Hurley Bldg

**Zoom URL:** NA



***Lecture Title:***

**Analogs of dual canonical bases for cluster algebras from Lie theory**

***Abstract***

The (quantized) coordinate rings of many interesting varieties from Lie theory are (quantum) cluster algebras. We construct the common triangular bases for these algebras. Such bases provide analogs of the dual canonical bases, whose existence has been long expected in cluster theory. For symmetric Cartan matrices, they are positive and admit monoidal categorification after base change.