
THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE
Algebraic Geometry and Representation Theory Seminar

Room 290C ,Ziskind Building
on Tuesday, Mar 13, 2018at 11:15

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Smoothness of spherical varieties via toric degenerations

Abstract:

Spherical varieties are a natural generalization of toric, symmetric, and flag varieties and form a rich class of algebraic varieties with an action of a reductive group. We combine the theory of toric degenerations of spherical varieties using representation theory with a recent result by Brown-McKernan-Svaldi-Zong, which characterises toric varieties using log pairs, in order to study the geometry of (horo-)spherical varieties. This is joint work in progress with Johannes Hofscheier.