



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, 2018  
at 11:15

Giuliano Gagliardi  
Leibniz University Hannover

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.