



THE WEIZMANN INSTITUTE OF SCIENCE
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE

Algebraic Geometry and Representation Theory Seminar

Room 1 ,Ziskind Building
on Thursday, Jun 16, 2016
at 14:00

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Representations of reductive groups distinguished by symmetric subgroups

Abstract:

We will discuss representation theory of a symmetric pair (G,H) , where G is a complex reductive group, and H is a real form of G . The main objects of study are the G -representations with a non trivial H -invariant functional, called the H -distinguished representations of G .

I will give a necessary condition for a G -representation to be H -distinguished and show that the multiplicity of such representations is less or equal to the number of double cosets $B \backslash G / H$, where B is a Borel subgroup of G .