

Fixed Point Theorem and Character Formula

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This talk is motivated by the bridge between geometry and representation. Weyl character formula, which describes characters of irreducible representations of a compact Lie group, can be obtained geometrically from the Atiyah-Segal-Singer or the Atiyah-Bott fixed point theorem. We present a fixed point theorem associated to a proper action of a Lie group on a manifold. We obtain Harish-Chandra character formula, the noncompact analogue of the Weyl Character formula, geometrically from the fixed point theorem. This is joint work with Peter Hochs.

Orateur: Mme WANG, Hang