SPEAKER: Manami Roy (Lafayette College)

TITLE: Quaternionic Maass Spezialschar on split SO(8)

ABSTRACT: The classical Maass Spezialschar is a subspace of the level one holomorphic Siegel modular forms of degree 2 given by certain linear relations between the Fourier coefficients. Work of Andrianov, Maass, and Zagier identifies the classical Maass Spezialschar with the space of Saito-Kurokawa lifts. We describe an analogue of the classical Spezialschar for space of quaternionic modular forms on split SO(8)using Fourier coefficients and show an equivalence of this space with quaternionic Saito-Kurokawa subspace (that arise as theta lifts from holomorphic forms on Sp(4)). In order to prove this result we develop a theory of a Fourier-Jacobi coefficient of quaternionic modular forms on orthogonal groups.