

Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

SPEAKER **Koichi Kaizuka** (貝塚公一) (University of Tsukuba)

DATE December 17 (Tue), 2013, 16:30–17:30

PLACE Room 126, Graduate School of Mathematical Sciences

TITLE A characterization of the L^2 -range of the Poisson transform on symmetric spaces of noncompact type (非コンパクト型対称空間におけるポアソン変換の L^2 -値域の特徴付け)

ABSTRACT Characterizations of the joint eigenspaces of invariant differential operators in terms of the Poisson transform have been one of the central problems in harmonic analysis on symmetric spaces. From the point of view of spectral theory, Strichartz (J. Funct. Anal.(1989)) formulated a conjecture concerning a certain image characterization of the Poisson transform of the L^2 -space on the boundary on symmetric spaces of noncompact type. In this talk, we employ techniques in scattering theory to present a positive answer to the Strichartz conjecture.