Lie Groups and Representation Theory Seminar at the University of Tokyo

DATE   November 18 (Tue), 2008, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Jorge Vargas** (FAMAF-CIEM, Córdoba)

TITLE   Liouville measures and multiplicity formulae for admissible restriction of Discrete Series

ABSTRACT   Let $H \subset G$ be reductive matrix Lie groups. We fix a square integrable irreducible representation π of G. Let Ω denote the coadjoint orbit of the Harish-Chandra parameter of π.
Assume π restricted to H is admissible. In joint work with Michel Duflo, by means of "discrete" and "continuos" Heaviside functions we relate the multiplicity of each irreducible H-factor of π restricted to H and push forward to $\mathfrak{h}^\star$ of the Liouville measure for Ω. This generalizes work of Duflo–Heckman–Vergne.