Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

DATE   November 27 (Tue), 2012, 16:30–18:00

PLACE   Room 126, Graduate School of Mathematical Sciences

SPEAKER   **Hiroshi Konno (今野宏)** (the University of Tokyo)

TITLE   Convergence of Kahler to real polarizations on flag manifolds
(旗多様体のケーラー偏極の実偏極への収束)

ABSTRACT   In this talk we will discuss geometric quantization of a flag manifold. In particular, we construct a family of complex structures on a flag manifold that converge 'at the quantum level' to the real polarization coming from the Gelfand–Cetlin integrable system. Our construction is based on a toric degeneration of flag varieties and a deformation of Kähler structure on toric varieties by symplectic potentials. This is a joint work with Mark Hamilton.