

**Lie Groups and Representation Theory Seminar
at the University of Tokyo**

リー群論・表現論セミナー

- DATE May 17 (Thu), 2007, 15:00–16:30
- PLACE Room 002, Graduate School of Mathematical Sciences
- SPEAKER **Gen Mano (真野 元)** (University of Tokyo)
- TITLE The unitary inversion operator for the minimal representation of the indefinite orthogonal group $O(p, q)$
- ABSTRACT The indefinite orthogonal group $O(p, q)$ ($p + q$ even, greater than four) has a distinguished infinite dimensional irreducible unitary representation called the ‘minimal representation’. Among various models, the L^2 -model of the minimal representation of $O(p, q)$ was established by Kobayashi–Ørsted (2003). In this talk, we focus on and present an explicit formula for the unitary inversion operator, which plays a key role for the analysis on this L^2 -model as well as understanding the G -action on $L^2(C)$. Our proof uses the Radon transform of distributions supported on the light cone. This is a joint work with T. Kobayashi.
- REMARK いつもと時刻・部屋が違います。ご注意ください。