Lie Groups and Representation Theory Seminar at the University of Tokyo

リー群論・表現論セミナー

DATE May 29 (Tue), 2007, 16:30–18:00

PLACE Room 126, Graduate School of Mathematical Sciences

SPEAKER Karl-Hermann Neeb (Technische Universität Darmstadt)

TITLE A host algebra for the regular representations of the canonical commutation relations

ABSTRACT We report on joint work with H. Grundling (Sydney). The concept of a host algebra generalises that of a group C^* algebra to groups which are not locally compact in the sense that its non-degenerate representations are in one-to-one correspondence with representations of the group under consideration. A full host algebra covering all continuous unitary representations exist for an abelian topological group if and only if it (essentially) has a locally compact completion. Therefore one has to content oneselves with certain classes of representations covered by a host algebra. We show that there exists a host algebra for the set of continuous representations of the countably dimensional Heisenberg group corresponding to a non-zero central character.

REMARK Neeb 教授は5月26日(土)・27日(日)に東京大学で行われる
第2回高木レクチャーで招待講演をされます。
高木レクチャーのホームページ:

http://www.kurims.kyoto-u.ac.jp/~toshi/jjm/JJMJ/ JJM_JHP/contents/takagi_jp/jjm-takagi2_jp.htm こちらもどうぞご参加ください。