

# Lie Group and Representation Theory Seminar Kyoto 2006

Date: February 21 (Tue), 2006, 16:30–17:30

Place: RIMS, Kyoto University : Room 402

Speaker: Hubert Rubenthaler (IRMA, Strasbourg)

Title: Local Zeta functions for a class of real symmetric spaces

Abstract: Let  $G/H$  be a symmetric space which is embedded as an open set in  $\mathbb{R}^n$ , let  $P$  be a polynomial invariant of the action of  $G$  on  $G/H$  and let  $\pi$  be a representation of  $G$  admitting a generalized  $H$ -invariant vector  $u$ . Then for  $f \in \mathcal{S}(\mathbb{R}^n)$  one can form the Zeta function:

$$Z(f, \pi, s) = \int_{G/H} f(\dot{g}) |P(\dot{g})|^s \pi(\dot{g}) u d\dot{g}.$$

For a class of symmetric spaces we will make this definition precise in the case where  $\pi$  belongs to the spherical minimal series, and we will prove a functional equation.

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