



# UNIVERSITY OF CALIFORNIA RIVERSIDE

DEPARTMENT OF MATHEMATICS

## COLLOQUIUM

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**Herbert Heyer**  
(Tuebingen Univ./UCSD)

"The central limit proper for probability measures on a topological group"

**Abstract:** The talk emphasizes three types of probability measures on a locally compact group  $G$ : limits of commutative infinitesimal triangular systems on  $G$ , infinitely divisible measures, and embeddable measures which are measures admitting an embedding into a continuous one-parameter semigroup of measures on  $G$ . If  $G$  is a Euclidean vector space, Paul Levy showed around 1934 that the three classes of measures coincide. For general locally compact groups  $G$  additional assumptions on  $G$  or/and on the measures involved are necessary. There is a conjecture that for all connected Lie groups infinite divisibility implies embeddability. Following recent publications of S.G.Dani, Y.Guivac'h and R.Shah we shall give an insight into part of the structure of the embedding problem in the general setting.

**Thursday, November 10<sup>th</sup>, 2011**

**Surge 284**

**4:10-5:00pm**

*Tea Time at 3:40pm*