Meeting: 1005, Newark, Delaware, SS 6A, Special Session on High Dimensional Probability

1005-60-89 **Fuchang Gao*** (fuchang@uidaho.edu), Department of Mathematics, P.O.Box 441103, University of Idaho, Moscow, ID 83844, and **Wenbo Li**. *Riesz product and small ball probabilities for the Slepian Gaussian Fields.*

Riesz product techniques are introduced into the study of small ball probabilities for Gaussian random fields. When applied to the two-dimensional Slepian field, this probabilistic and analytic method enables us to obtain the small ball probability under the sup-norm, through some standard estimate and straightforward calculations. (Received January 31, 2005)