

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

1005-60-68 **Fred Torcaso***, Dept. Applied Math & Statistics, Johns Hopkins University, Whitehead Hall 302,
Baltimore, MD 21218, and **James A. Fill**. *Small deviations of Brownian sheet and beyond*.

We will briefly outline a technique using the Mellin transform that is useful in obtaining precise expansions of the small deviations of squared L^2 -norms of Brownian sheet. The technique can sometimes be applied successfully to the small deviations of other Gaussian seminorms. This is joint work with James A. Fill. (Received January 27, 2005)