1125-60-923   **Lisa B Hartung***, 251 Mercer Street, New York, NY 10012. *Diffusion processes on branching Brownian motion.*

Branching Brownian motion(BBM) is a classical process in probability, describing a population of particles performing independent Brownian motion and branching according to a Galton Watson process. In this talk we show how one can construct a class of one-dimensional diffusion processes on the particles of BBM that are symmetric w.r.t. the limits of random martingale measures. These measures are associated with the extended extremal process of branching Brownian motion and are supported on a Cantor-like set (joint work with S. Andres and A. Bovier). (Received September 13, 2016)