1139-60-651   **Scott Sheffield***, 77 Massachusetts Avenue, Cambridge, MA 02139. *Random walks in random environments: a new approach.*

I will discuss some recent joint work with Ewain Gwynne and Jason Miller concerning the extension of "random walk in random environment" results to the setting of "scale free" environments, where classical techniques do not directly apply. I will also discuss applications of this theory to random walks on planar maps and to various discretizations of Liouville quantum gravity. (Received February 20, 2018)