Christian Litterer* (christian.litterer@polytechnique.edu). Rough paths on manifolds.

We introduce a notion of rough paths on embedded submanifolds and demonstrate that this class of rough paths is natural. As a consequence we obtain a rough path analogue of Cartan’s development map developed by Eeels, Elworthy and Malliavin in the stochastic setting. Finally, we show equivalence of existing notions of rough paths on manifolds under their respective geometric assumptions. Joint work with T. Cass and B. Driver. (Received February 14, 2015)