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Ionel Popescu* (ipopescu@math.gatech.edu), School of Mathematics, 686 Cherry St., Atlanta, GA 30332, and **Mihai Pascu**, Faculty of Mathematics and Computer Science, Str. Iuliu Maniu Nr. 50, 500091 Brasov, Romania. *Fixed distance couplings of Brownian motions on Riemannian manifolds.*

In this talk I will show a construction of couplings of Brownian motions on a Riemannian manifold for which the distance between them is deterministic. One such particular case is the one with fixed distance for all times. On model manifolds we actually give a complete characterization of the couplings for which the distance function is deterministic. This is joint work with Mihai Pascu. (Received August 07, 2018)