Benamou-Brenier curves on graphs

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Abstract. Given a couple f_0, f_1 of finitely supported probability measures on a graph, we construct an interpolating curve $(f_t)_{t \in [0,1]}$ which plays the same role as a W_2 Wasserstein geodesic in continuous spaces. We then study the interplay between the geometry of the graph and the convexity properties of the entropy functional along these curves.