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Andrew Marks* (marks@math.ucla.edu). *Jump operations for Borel graphs.*

We introduce a jump operation on bipartite Borel graphs, defined by analogy with Louveau's jump operation on Borel equivalence relations. We show that if G is a bipartite Borel graph, then the jump of G is a bipartite Borel graph which has no Borel homomorphism to G (though G has a Borel homomorphism to its jump). We also consider a jump analogous to the Friedman-Stanley jump, where there are interesting open questions. We use this jump operation to answer a question of Kechris and the speak. This is joint work with Adam Day. (Received February 15, 2016)