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**Terry Soo** and **Amanda Wilkens\*** (awilkens@ku.edu). *Finitary isomorphisms of Poisson point processes.*

We consider Poisson point processes over  $\mathbb{R}^d$ . As part of general theory for the isomorphism problem for actions of amenable groups, Ornstein and Weiss (1987) proved that any two Poisson point processes are isomorphic as factors, where the factor map commutes with the isometries of  $\mathbb{R}^d$ . We give a sketch of an elementary construction of an isomorphism of Poisson point processes that is finitary. This is joint work with Terry Soo (University of Kansas). (Received September 23, 2018)