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Peter Burton* (pjburton@caltech.edu), **Martino Lupini** and **Omer Tamuz**. *Furstenberg entropy and weak equivalence*.

Furstenberg entropy is an invariant of stationary dynamical systems which quantifies how far the system is from being measure preserving. An important open problem in the theory of stationary systems is to understand the possible values of Furstenberg entropy on ergodic stationary systems corresponding to a given group and probability measure. In this talk we will describe how to use the notion of weak equivalence of stationary systems and the omitting types theorem from model theory to show that the set of values of Furstenberg entropy on factors of the Poisson boundary is closed. This is joint work with Martino Lupini and Omer Tamuz. (Received February 14, 2016)