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Henk Bruin* (henk.bruin@univie.ac.at), Faculty of Mathematics, University of Vienna, Oskar Morgensternplatz 1, 1090 Vienna, Austria. *Matching for translated β -transformations.*

This talk is about the parameter space of a family of translated β -transformations $T(x) = \beta x + a \pmod{1}$ in regard to the property of “matching”. This means that at some iterate $T^n(0) = T^n(1)$, and this has a bearing on the invariant density of T . The prevalence of matching is proved under specific number-theoretic conditions: the slope β is a (specifically quadratic) Pisot number. (This is joint work with Carlo Carminati, Pisa, and Charlene Kalle, Leiden) (Received September 09, 2017)