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Dubi Kelmer* (kelmerdu@gmail.com), Boston College, Carney hall, Chestnut Hill,, MA 02467-3806, and **Alex Kontorovich**. *Equidistribution of translated cuspidal geodesics and applications.*

I will describe new results on the equidistribution of translated cuspidal geodesics on a hyperbolic surface, and its applications to counting integer solutions to certain Diophantine equations, as well as estimating second moments of L-functions. This is based on joint work with Alex Kontorovich. (Received January 17, 2015)