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Patrick Michael Boland*, pboland@umich.edu. *Scattering geodesics: Sojourn times and self intersections*. Preliminary report.

On noncompact hyperbolic surfaces, two interesting types of curves are closed and scattering geodesics. The length of a closed geodesic and “sojourn time” of a scattering geodesic are important geometric quantities. Inspired by Ara Basmajian’s paper “Universal length bounds for non-simple closed geodesics on hyperbolic surfaces”, we investigate a relationship between the sojourn time of a scattering geodesic and its number of self intersections. (Received September 04, 2012)