## **BILLIARD MODELS AND ENERGY TRANSFER**

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ABSTRACT. The recent progress of the theory of hyperbolic billiards have enhanced the interest toward billiard models since they are most promising for the derivation of laws of statistical physics from newtonian dynamics. Parallel to this progress, energy transfer models (in particular, the study of diffusion and of Fourier's law of heat conduction) have recently got to the center of interest. In this talk I will present models with energy transfer and will treat a stochastic version of one of them in detail.