

It is known since the work of Gallavotti that the motion of a point particle in a set of circular scatters distributed as a Poisson process scaled properly can be described by a linear Boltzmann equation, and it is also known in a periodic distribution of scatters, with the same scaling this is not true. In the talk I consider some other point processes for the distribution of scatters, and discuss their properties in relation to the linear Boltzmann equation.