

# The Meteor Process Stationary Distribution

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The Meteor Process is the simplest case of the (noiseless) potlatch process, which was introduced by Thomas M. Liggett in 1981. The process consider a initial mass configuration on sites of a graph  $G$ , where for each site we associate a Poisson process with rate 1. When one of the Poisson clocks rings, we consider the meteor hit the site and all its mass is equally distributed to its neighbors. Recent works about this process are about the convergence to the stationary distribution and properties of the mass for this distribution. In this poster we present these recent results and introduce the technique of WIMPs, widely used to couple this process. We also present results about the duality between this process and the simple Smoothing process (where on a meteor hit we substitute the mas by the average of the neighbors).