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Shui Feng* (shuifeng@mcmaster.ca), 1280 Main Street West, Hamilton, Ontario L8S 4K1, Canada. *Asymptotic Behaviour of Homozygosity.*

Taking a random sample from a population consisting of individuals of countable number of types. The probability that all individuals in the sample are of the same type is called the homozygosity. This talk will provide a brief survey on the asymptotic behaviour of the homozygosity when the proportions of types follow the Poisson-Dirichlet distribution. These include the law of large numbers, the fluctuation theorems, and large deviations. (Received July 13, 2018)