

Pólya urns: Probabilistic analysis and statistical questions

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Pólya urns have become an indispensable mathematical and modeling tool for the understanding of many areas, such as engineering, economics, epidemiology, informatics (only to name a few of the plethora of applications). In this talk we present many fundamental results about Pólya urns, with a focus on the more recent area of multiple ball drawing. Potential applications will be mentioned. We leave the audience with a few statistical questions about Pólya urns.