



# Parameter estimation from coarse data: on different theoretical assumptions and their practical implications

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The talk is divided into three parts: first we discuss different generalisations of the MLE method to the case of incompletely observed (coarse) data. With the help of toy examples, we distinguish between the marginal, the face and the set-valued likelihood, independently considered by different authors such as Heijan, Rubin, Jaeger, Denoeux, Hüllermeier, Dubois, etc. In a second part we mention different assumptions about the coarsening process and the parametric space. The third part of the talk is devoted to a particular application of methods of MLE for incomplete data: the case of partial ranked data.