A moderate deviation principle for empirical bootstrap measure

Mikhail Ermakov

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We establish two moderate deviation principles (MDP) in the bootstrap setting. We prove MDP for the joint distribution of the empirical measure and the empirical bootstrap measure (empirical measure obtaining by the bootstrap procedure). We derive
MDP for the conditional distribution of the empirical bootstrap measure given the empirical probability measure.For most common statistical functionals (in particular differentiable and homogeneous functionals) we show that their asymptotics of moderate deviation probabilities in the cases of empirical measure and bootstrap empirical bootstrap measure coincides. However the moderate deviation zones are different.

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