

Workshop on Potential Theory and Applications, 2012, Szeged, Hungary
<http://www.math.u-szeged.hu/wspota2012/>

Almost sure convergence for Angelesco ensembles

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We develop certain aspects of potential theory (e.g. Fekete points) in the context of Angelesco ensembles. Then we show that a random point in an Angelesco ensemble converges (weak-*) almost surely to the equilibrium measure-answering (positively) a question of Kuijlaars. We will also discuss a large deviation principle for Angelesco ensembles.