Abstract: Real polynomials which determine inverse polynomial images of an interval have many extremal properties including orthogonality with respect to the related equilibrium measure. Similar properties are satisfied for rational functions with fixed denominator.

We present several results in that direction, in particular a sharp Markov type inequality for rational functions with fixed poles (joint with Mehmet Ali Aktürk).

Date: October 31, 2014
Time: 15:40
Place: Sabancı University, Karaköy Communication Center
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İstanbul Analysis Seminars is supported by TÜBİTAK.