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Mishko Mitkovski* (mmitkov@clemson.edu). *Determinacy problem for measures.*

A finite positive measure μ is said to be a -determinate if there is no other finite positive measure ν such that the Fourier transforms of μ and ν agree on some interval of length a . For a given measure μ we show how to estimate the largest a for which μ is a -determinate by looking only at the support of μ . Our approach is partly based on the de Branges-Naimark extreme point method. We use the same method to improve the famous result of Eremenko and Novikov concerning oscillations of measures with a spectral gap. I will also present some more recent results about the determinacy part of the classical moment problem. This is joint work with A. Poltoratski. (Received January 15, 2016)