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Orthogonal Polynomials and Parabolic Implosion

Orthogonal polynomials appear naturally on the study of composition of Moebius transformations. In this talk, we consider different classes of orthogonal polynomials related to the perturbation of one single parabolic Moebius map. The results can be seen as particular cases of non-autonomous parabolic implosions. We consider also a random situation and see how our results hold on this setting too.