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C Bénéteau, D Khavinson, C Liaw, D Seco* (dseco@mat.uab.cat) and **B Simanek**. *Zeros of optimal polynomial approximants and Jacobi matrices.*

I present a recent work with Beneteau, Khavinson, Liaw and Simanek where we study the structure of the zeros of polynomials appearing in the study of cyclicity in Hilbert spaces of analytic functions. We find the minimum possible modulus of occurring zeros by solving a nonlinear extremal problem associated with norms of Jacobi matrices. (Received September 15, 2016)