

## On matrix Cauchy biorthogonal polynomials

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**05.04****Sergio Medina Peralta***(Universidad Carlos III de Madrid, Spain)***Time:** Monday 22.07., 12:00 - 12:30, Room HS 3

**Abstract:** In this talk, we study the sequences of matrix Cauchy biorthogonal polynomials. We will focus on the algebraic aspects of the problem, finding a connection with a kind of mixed type Hermite-Padé approximation problem, and with its corresponding Riemann–Hilbert problem. From here we deduce some of the properties of these sequences of biorthogonal polynomials.