

Sobolev biorthogonal polynomials and the Gauss-Borel factorization**03.05****Manuel Mañas***(Universidad Complutense de Madrid, Spain)***Time:** Tuesday 23.07., 10:30 - 11:00, Room HS 6

Abstract: We explore the Gauss-Borel description of the Sobolev biorthogonality. A theory of deformations of Sobolev bilinear forms is proposed. We consider both polynomial deformations and a class of transformations related to the action of linear operators on the entries of a given bilinear form. Christoffel type formulae among new and old polynomial sequences are determined. We also discuss generalized Hankel symmetries.