Harten's Multiresolution and Orthogonal Polynomials: A first relation

Sergio Amat*, Kenier Castillo and Juan Ruiz

*Departamento de Matemática Aplicada y Estadística, U.P. Cartagena- Spain

Resumo

The aim of this talk is to relate Harten's multiresolution framework with orthogonal polynomials. The idea is to use these families of polynomials as approximations within the associated prediction operators. Preliminary theoretical results and some applications will be shown.