Spectral Transformations of the Laurent Biorthogonal Polynomials, II. Pastro Polynomials

Luc Vinet and Alexei Zhedanov

Abstract. We continue to study the simplest closure conditions for chains of spectral transformations of the Laurent biorthogonal polynomials (LBP). It is shown that the 1-1-periodic $q$-closure condition leads to the LBP introduced by Pastro. We introduce classes of semi-classical and Laguerre-Hahn LBP associated to generic closure conditions of the chain of spectral transformations.