Mathematics > Classical Analysis and ODEs

A Bochner theorem for Dunkl polynomials

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(Submitted on 5 Nov 2010)

We establish an analogue of the Bochner theorem for first order operators of Dunkl type, that is we classify all such operators having polynomial solutions. Under natural conditions it is seen that the only families of orthogonal polynomials in this category are limits of little and big q-Jacobi polynomials as $q=-1$.

Comments:	10 pages
Subjects:	**Classical Analysis and ODEs (math.CA)**
MSC classes:	33C45, 33C47, 42C05
Cite as:	**arXiv:1011.1457v1** [math.CA]

Submission history

From: Alexei Zhedanov [view email]

[v1] Fri, 5 Nov 2010 16:53:42 GMT (10kb)

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