

DOI: 10.21538/0134-4889-2016-22-4-126-135

MSC: 33C45, 42A05, 41A55

BOHMAN EXTREMAL PROBLEM FOR THE JACOBI TRANSFORM¹

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We give a solution to the Bohman extremal problem for nonnegative even entire functions of exponential type that are Jacobi transforms of compactly supported functions. We prove that the extremal function is unique. The Gauss quadrature formula on the half-line over zeros of the Jacobi function is used.

Keywords: hyperbolic weight, Jacobi function, Jacobi transform, Bohman extremal problem, Gauss quadrature formulae.

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¹Received July 30, 2016

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Cite this article as:

D. V. Gorbachev, V. I. Ivanov, Bohman extremal problem for the Jacobi transform, *Trudy Inst. Mat. Mekh. UrO RAN*, 2016, vol. 22, no. 4, pp. 126–135.