北京理工大學

数学与统计学院学术报告

Marginal factorization of metaplectic Wigner distributions: a symplectic classification

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摘 要： The marginals of the Wigner distribution are closely related to the fractional Fourier transform. We investigate how this property extends to metaplectic Wigner distributions, deriving a geometric criterion for marginal factorisation and identifying the associated linear canonical transforms. The results are illustrated through generalised Wigner distributions used in optical signal processing.

个人简介： Dr John J. Healy is an assistant professor in Electronic Engineering at University College Dublin. His research focuses on computational optics, linear canonical transforms, digital holography, and terahertz imaging. His work combines mathematical analysis, numerical algorithms, and optical signal processing, with an emphasis on accurate and efficient optics simulations.



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