

The shifted wave equation on Damek--Ricci spaces and on homogeneous trees

Jean-Philippe Anker (MAPMO), Pierre Martinot (IECN), Emmanuel Pedon (LM-Reims), Alberto G. Setti

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We solve explicitly the shifted wave equation on Damek--Ricci spaces, using Asgeirsson's theorem and the inverse dual Abel transform. As an application, we investigate Huygens' principle. A similar analysis is carried out in the discrete setting of homogeneous trees.

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