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On a nonclassical interpretation of the four-dimensional Goursat problem for a hyperbolic equation. (Russian. English summary) [Zbl 1474.35455](#)

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Summary: A homeomorphism between certain pairs of Banach spaces is revealed in the study of the four-dimensional Goursat problem for a differential equation with leading partial derivative of the sixth order $D_1D_2D_3^2D_4^2$ with discontinuous coefficients (L_p -coefficients) by reducing this problem to an equivalent integral equation.

MSC:

35L35 Initial-boundary value problems for higher-order hyperbolic equations

Keywords:

hyperbolic equation; four-dimensional Goursat problem; equations with discontinuous coefficients

Full Text: [MNR](#)

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