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Quelques résultats de non résolubilité locale pour des équations hyperboliques. (Some results on local solvability of hyperbolic equations). (French) [Zbl 0647.35049](#)

Journ. Équ. Dériv. Partielles, St.-Jean-De-Monts 1987, Exp. No. 8, 10 p. (1987).

The author considers operators of the form

$$P = \partial^2 / \partial t^2 - (\partial / \partial x)(a(t, x) \partial / \partial x)$$

under the hypothesis of weak hyperbolicity $a(t, x) \geq 0$.

The question of local solvability of this operator is posed. The results are obtained in collaboration with S. Spagnolo and will be published with detailed demonstrations elsewhere.

MSC:

[35L10](#) Second-order hyperbolic equations

[35A07](#) Local existence and uniqueness theorems (PDE) (MSC2000)

Keywords:

[weak hyperbolicity](#); [local solvability](#)

Full Text: [Numdam](#) [EuDML](#)