

**Chemin, Jean-Yves**

**Localisation des singularités pour les solutions d'équations aux dérivées partielles non linéaires en dimension 2 ou à l'ordre 1. (Localization of singularities for solutions of fully non linear partial differential equations in dimension 2 or of order 1).** (French) [Zbl 0608.35007](#)  
C. R. Acad. Sci., Paris, Sér. I 303, 407-409 (1986).

A result on microlocal ellipticity for nonlinear equations of order one and a result on regularity for nonlinear strictly hyperbolic equations in two dimensions are presented. For this purpose special function spaces defined by means of paraproducts are introduced.

Reviewer: [R.Racke](#)

**MSC:**

[35F20](#) Nonlinear first-order PDEs

[35G20](#) Nonlinear higher-order PDEs

[35A27](#) Microlocal methods and methods of sheaf theory and homological algebra applied to PDEs

Cited in **1** Document

**Keywords:**

microlocal ellipticity; order one; regularity; strictly hyperbolic; paraproducts