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A generalization of the Rudin-Carleson theorem. (English) [Zbl 1201.35085](#)

Bove, Antonio (ed.) et al., Advances in phase space analysis of partial differential equations. In Honor of Ferruccio Colombini's 60th birthday. Selected papers based on the workshop, Siena, Italy, October 2007. Boston, MA: Birkhäuser (ISBN 978-0-8176-4860-2/hbk; 978-0-8176-4861-9/ebook). Progress in Nonlinear Differential Equations and Their Applications 78, 37-57 (2009).

Summary: We prove a generalization of the Rudin-Carleson theorem for homogeneous solutions of locally solvable real analytic vector fields.

For the entire collection see [\[Zbl 1187.35004\]](#).

MSC:

- [35F15](#) Boundary value problems for linear first-order PDEs
- [35B30](#) Dependence of solutions to PDEs on initial and/or boundary data and/or on parameters of PDEs
- [42A38](#) Fourier and Fourier-Stieltjes transforms and other transforms of Fourier type
- [30E25](#) Boundary value problems in the complex plane

Cited in **2** Documents

Keywords:

homogeneous solutions; locally solvable real analytic vector fields; Sussmann's orbits; condition (\mathcal{P})

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