

Melrose, Richard B.

Calculus of conormal distributions on manifolds with corners. (English) Zbl 0754.58035
Int. Math. Res. Not. 1992, No. 3, 51-61 (1992).

This is a preliminary publication of a result which will be published in its proper setting in a monograph which the author is currently writing [Differential analysis on manifolds with corners, in preparation]. The main result is that the push forward under a b -fibration of an integrable polyhomogeneous conormal density on a compact manifold with corners is also polyhomogeneous conormal. Similar results are obtained also for the pull back under a b -map. The author announces that in the monograph mentioned above, more general results of this type will be presented.

Reviewer: [C.S.Sharma \(London\)](#)

MSC:

- [58J40](#) Pseudodifferential and Fourier integral operators on manifolds
- [35S35](#) Topological aspects for pseudodifferential operators in context of PDEs: intersection cohomology, stratified sets, etc.
- [57R15](#) Specialized structures on manifolds (spin manifolds, framed manifolds, etc.)

Cited in **4** Reviews
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Keywords:

[conormal distributions](#); [corners](#); [elliptic operators](#)

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