

GLOBAL L^p CONTINUITY OF FOURIER INTEGRAL OPERATORS

SANDRO CORIASCO AND MICHAEL RUZHANSKY

ABSTRACT. In this paper we establish global L^p regularity properties of Fourier integral operators. The orders of decay of the amplitude are determined for operators to be bounded on $L^p(\mathbb{R}^n)$, $1 < p < \infty$, as well as to be bounded from Hardy space $H^1(\mathbb{R}^n)$ to $L^1(\mathbb{R}^n)$. The obtained results extend local L^p regularity properties of Fourier integral operators established by Seeger, Sogge and Stein (1991) as well as global $L^2(\mathbb{R}^n)$ results of Asada and Fujiwara (1978) and Ruzhansky and Sugimoto (2006), to the global setting of $L^p(\mathbb{R}^n)$. Global boundedness in weighted Sobolev spaces $W_{\sigma}^{s,p}(\mathbb{R}^n)$ is also established. The techniques used in the proofs are the space dependent dyadic decomposition and the global calculi developed by Ruzhansky and Sugimoto (2006) and Coriasco (1999).

1. INTRODUCTION

In this paper we investigate global $L^p(\mathbb{R}^n)$ continuity properties of non-degenerate Fourier integral operators. In particular, we are interested in the question of what decay properties of the amplitude guarantee the global boundedness of Fourier integral operators from $L^p(\mathbb{R}^n)$ to $L^p(\mathbb{R}^n)$.

The analysis of the local L^2 boundedness of Fourier integral operators goes back to Eskin [14] and Hörmander [15], who showed that non-degenerate Fourier integral operators with amplitudes in the symbol class $S_{l,0}^q$ are locally bounded on $L^2(\mathbb{R}^n)$. A Fourier integral operator of class $I^s(X, Y; \mathcal{C})$ is called non-degenerate if its canonical relation $\mathcal{C}$ is locally a graph of a symplectic mapping from $T^*X \setminus 0$ to $T^*Y \setminus 0$. If the canonical relation of the operator degenerates, the local L^2 boundedness of zero order operators is known to fail, see e.g. Hörmander [17]. In this paper we will be concerned with non-degenerate operators only.

Since '70s this local L^2 boundedness result has been extended in different directions. On one hand, global $L^2(\mathbb{R}^n)$ boundedness has been studied, motivated by applications in microlocal analysis and hyperbolic partial differential equations. On the other hand, its extension to L^p spaces with $p \neq 2$ has been also under study motivated by applications in harmonic analysis.

The question of the global $L^2(\mathbb{R}^n)$ boundedness has been first widely investigated in the case of pseudo-differential operators. The phase is trivial in this case, so the main question is to determine minimal assumptions on the amplitude which guarantees the global $L^2(\mathbb{R}^n)$ boundedness. For example, one wants to relax an assumption

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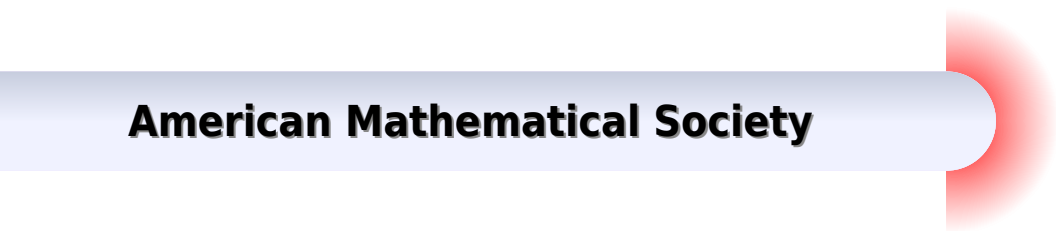
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Harmonic Analysis Elias M. Stein, 2016-06-02 This book contains an exposition of some of the main developments of the last twenty years in the following areas of harmonic analysis singular integral and pseudo differential operators the theory of Hardy spaces L^p estimates involving oscillatory integrals and Fourier integral operators relations of curvature to maximal inequalities and connections with analysis on the Heisenberg group **Library of Congress Catalogs** Library of

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Staubach, 2014-04-07 The authors investigate the global continuity on spaces with Fourier integral operators with smooth and rough amplitudes and or phase functions subject to certain necessary non degeneracy conditions In this context they prove the optimal global boundedness result for Fourier integral operators with non degenerate phase functions and the most general smooth Hörmander class amplitudes i.e. those in $S^{-\infty}$ They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators on weighted spaces with and i.e. the Muckenhoupt weights for operators with rough and smooth amplitudes and phase functions satisfying a suitable rank condition **Associations'**

Publications in Print, 1981 1981 in 2 v v 1 Subject index v 2 Title index Publisher title index Association name index

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