## Microlocalization on CR manifolds and microlocal ideals of subelliptic multipliers

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## Abstract

Microlocalization, namely the splitting of the Fourier transform space into appropriately chosen pieces, is a very powerful technique in CR geometry. I will show how it can be employed to prove that the tangential Cauchy-Riemann operator has closed range on compact weakly pseudoconvex CR manifolds embedded in  $C^N$  and of codimension greater than or equal to one. I will also present some work of J.J. Kohn where he microlocalizes ideals of subelliptic multipliers in order to gain a better understanding of their behavior.