On some microlocal properties of the range of a pseudo-differential operator of principal type.

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The purpose of this talk is to obtain microlocal analogues of results by L. H örmander about inclusion relations between the ranges of first order differential operators with coefficients in C^∞ which fail to be locally solvable. Using similar techniques, we shall study the properties of the range of classical pseudo-differential operators of principal type which fail to satisfy condition (Ψ).