Abstract

We consider characters of a reducible unitary representation of a compact connected semisimple Lie group. We provide a geometric condition under which these characters can be restricted to closed subgroups. This was already considered by T. Kobayashi in 1998 to establish a criterion for the discrete decomposability of restrictions of unitary representations of reductive Lie groups to reductive closed subgroups. The crucial point in his proof is to consider characters of a reducible unitary representation of a compact connected Lie group and their restriction to closed subgroups using microlocal analysis methods in the hyperfunctions setting. In this thesis we use microlocal analysis of distribution theory instead. The novelty consists in using the continuity between adapted spaces of distributions and the restriction to closed submanifolds. This continuity is not readily available in the hyperfunctions setting.