

# Abstract

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“Semiclassical defect measures and observability estimate  
for Schrödinger operators  
with homogeneous potentials of order zero”

In this talk, we will consider asymptotic behavior as  $|x| \rightarrow \infty$  of Schrödinger operators with homogeneous potentials. Localization in direction was known as a property of Schrödinger operators with homogeneous potentials of order zero or corresponding Hamiltonian flow. We will introduce these known localization in direction first. We then introduce localization of defect measures using semiclassical measures. As an application, we give necessary condition for observability of Schrödinger operators with homogeneous potentials of order zero.