

The equivariant Hamilton-Jacobi equation in the presence of a propagating scalar field

[M. A. Shahalamian](#)

Abstract

We calculate the equivariant Hamilton-Jacobi equation in the presence of a scalar field in the case of ideal gas. The equation is defined in terms of the product of two equivariant equations. The only condition on the two equivariant equations is the presence of a propagating scalar field. The equation is proved to be in the path integral form.