

# Derivation of the Symmetry Postulates for Identical Particles from Pilot-Wave Theories

Bacciagaluppi, Guido (2003) Derivation of the Symmetry Postulates for Identical Particles from Pilot-Wave Theories.

Full text available as:

[Postscript](#) - Requires a viewer, such as [GhostView - GSView](#)

[PDF](#) - Requires a viewer, such as [Adobe Acrobat Reader](#) or other PDF viewer.

## Abstract

The symmetries of the wavefunction for identical particles, including anyons, are given a rigorous non-relativistic generalisation within pilot-wave formulations of quantum mechanics. In particular, parastatistics are excluded. The result has a rigorous generalisation to  $n$  particles and to spinorial wavefunctions. The relation to other non-relativistic approaches is briefly discussed.

**Keywords:** identical particles, Bohm theory, stochastic mechanics

**Subjects:** [Specific Sciences: Physics: Quantum Mechanics](#)

**ID Code:** 993

**Deposited By:** [Bacciagaluppi, Guido](#)

**Deposited On:** 12 February 2003