

Abstract

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On a kinematical algebra for interacting Bosons in infinite space: making a case for the Heisenberg picture

The long-standing quest for a kinematical algebra of interacting Bosons is recalled and the steps towards its resolution are outlined. The result is a descendant of the resolvent algebra of canonical quantum systems which can be described in simple algebraic terms. It provides a natural framework for the study of bosonic matter in infinite space.