

BBGKY HIERARCHY AND DYNAMICS  
OF CORRELATIONS

*D.O. Polishchuk*

Taras Shevchenko National University of Kyiv,  
Faculty of Mechanics and Mathematics  
(2, Academician Glushkov Ave., Kyiv 03187, Ukraine)

S u m m a r y

We derive the BBGKY hierarchy for the Fermi and Bose many-particle systems, using the von Neumann hierarchy for the correlation operators. The solution of the Cauchy problem of the formulated hierarchy in the case of an  $n$ -body interaction potential is constructed in the space of sequences of trace-class operators.