SFB 608

Einladung zum Kolloquium

Ort: Universität zu Köln
II. Physikalisches Institut, Seminarraum 201

Zeit: Mittwoch, den 28. April 2004, 15 Uhr c.t.

Sprecher: Priv. -Doz. Dr. F. Göhmann
Bergische Universität Wuppertal

Thema: Finite temperature correlation functions of
the anisotropic (XXZ) Heisenberg chain.

Correlation functions of local operators are of principal interest in any microscopic theory of condensed matter, for they determine its measurable macroscopic properties through the Kubo formalism. Non-perturbative analytic results on correlation functions for theories with interaction are, however, rare. A notable exception is the XXZ spin one-half Heisenberg chain whose correlation function were intensely studied over the past decade by Bethe ansatz and related algebraic methods. I shall report on the status of these activities and present our own recent results, which extend known formulae to finite temperatures.

Gez. Priv.-Doz. A. Schadschneider