乞掲示

理化学研究所原子核グループコロキウム　*2001. 10. 24*

講師：　**A. Bulgac**

(University of Washington, USA)

題目：　Local Density Approximation for Systems with Pairing Correlations

∗ The seminar will be given in *English.*

日時：　2001年　10月　24日 (Wed.)　15:00より

場所：　理化学研究所研究本館１Ｆセミナー室

Abstract

I shall introduce a natural and simple to implement renormalization scheme of the Hartree-Fock-Bogoliubov (HFB) equations for the case of zero range pairing interaction. This renormalization scheme proves to be equivalent to a simple energy cut-off with a position dependent running coupling constant, which qualitatively emulates a density dependent zero range pairing interaction suggested by phenomenological analyses. I shall describe also fully self–consistent HFB calculations with a full consideration of the continuum of long chains of spherical nuclei (essentially from one drip line to another) using the SLy interaction. where we used a zero range pairing interaction, which for the first time was treated without an arbitrary cutoff, using the new regularization procedure recently developed by us. In the end I shall formulate a local density approximation for fermion systems with pairing correlations based on a rapidly converging renormalization scheme for the pairing gap in the case of zero range pairing interaction.

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セミナー係

RIビーム科学研究室　福山 祥光　西 勇二　涌井 崇志

セミナー係連絡先

(email)　seminar@rarfaxp.riken.go.jp

(FAX)　048–462–4689

(WWW)　http://rarfaxp.riken.go.jp/~seminar/