

Nucleon-pair approximation with particle-hole excitations

Wednesday 3 July 2024 18:05 (20 minutes)

In this talk I shall give a brief introduction to the nucleon-pair approximation of the shell model [1], as well as its extended version with particle-hole excitations included [2]. Some applications of the method will also be presented.

[1] Y. M. Zhao, A. Arima, Nucleon-pair approximation to the nuclear shell model, Phys. Rep. 545, 1 (2014).

[2] Y. Y. Cheng, Y. M. Zhao, A. Arima, Nucleon-pair approximation with particle-hole excitations, Phys. Rev. C 97, 024303 (2018).

Section

Nuclear structure: theory and experiment

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