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Superfluidity in nuclear systems

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Peter Schuck devoted much attention to the study of nuclear superfluidity and to many-body effects that renormalize the pairing interaction in nuclear systems, going from his works with the Catania group to his recent papers with E. Litvinova.

I will resume the research done on this topic by the Milano group, starting from a paper we wrote together with him [1]. Such research deals not only with atomic nuclei but also with superfluidity in the inner crust of neutron stars and with the structure of vortices.

[1] F. Barranco, P.F.Bortignon, R.A. Broglia, G. Colò, P. Schuck, E. Vigezzi and X. Vinas, Pairing matrix elements and pairing gaps with bare, effective and induced interactions, Phys. Rev. C 73 (2005) 054314

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