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Séminaire de Physique Nucléaire Théorique

Renormalization Group approaches to pairing in neutron matter

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In this talk I will re-visit the issue of pairing in the higher partial waves in pure neutron matter. We use the free-space SRG interactions as input and we calculate the zero temperature gaps as a function of density. We use the dependence of the gap on the renormalization scale as a tool to estimate the size of the medium corrections. The pairing gap is very sensitive to the details of the approximation used. Hence, I focus next on the in-medium evolution of the renormalization group equation, the in-medium similarity renormalization group (IM-SRG). I discuss the set-up and summarize our progress.

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