Recent Progress in Many-Body Theories (RPMBT22)



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BCS-BEC crossover in nuclear matter and related systems

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I will discuss the features of BCS-BEC crossover in nuclear systems and by extension also in fermionic ultra-cold gases in the presence of population imbalance. The phase diagram of such systems will be discussed including phases with broken space symmetries and phase separation. It will be pointed out that several tri-critical points appear on the phase diagram of such a system.

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