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Nature of quantum correlations in many body systems

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Since the 50's the importance of quantum correlations to describe matter has been understood, first in atomic systems by Cooper and Froehlich and extended to Nuclei by Mott and Pines through an intuitive 'pair' models. In a first part i'll discuss a modern interpretation of this phenomena and some applications. In a second part I'll focus on more general type of correlations and possible impact on nuclear structure. I'll then conclude by short insight of the localization properties of correlated structures.

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