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**Bose Operators as Linear Combination of Fermi Operators. Correlated Electron Pairs Formation** CARLOS FIGUEROA, Depto. Ingeniería Industrial, UNISON, RAÚL RIERA, DIFUS, UNISON, RODRIGO ROSAS, Depto. de Física, UNISON, MARTÍN MOLINAR, DIFUS, UNISON — In this work, the formation of correlated electron pairs by the interchange of a phonon in a conductor material is studied. The process of electron pairs formation is graphically represented and physically interpreted. The representation of phonons creation and annihilation operators as a linear combination of products of electron creation and annihilation operators is also studied. The end is obtained BCS Hamiltonian.

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