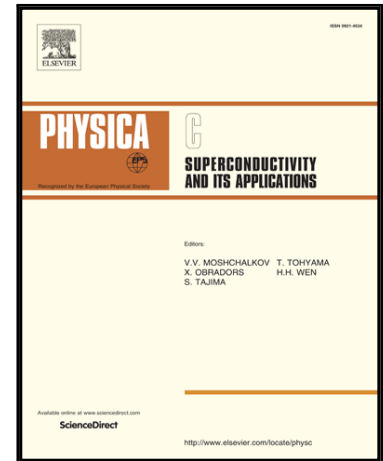


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The half-filled superconducting system with on-site inter-band interactions

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Highlights

- Going beyond the mean field approximation in the case of the on-site spin-spin and the on-site pair-exchange interactions.
- The investigation of the model with the above interactions at zero and at finite temperatures as well.
- Finding interesting phase transitions that might point to the reentrant superconductivity.
- The presence of complicated structure of gaps in the excitation spectrum in the presence of the interactions from point 1.

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