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## **Superconductivity & Antiferromagnetism in the 2d Hubbard model, an RG and MF approach**

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We combine the functional renormalisation technique with an extended mean-field calculation to get insight into the symmetry-broken phase of the 2-dimensional Hubbard model. Coexistence of d-wave-superconductivity and s-wave-antiferromagnetism is found.

*Keywords* : Hubbard model, Functional Renormalisation, Symmetry broken phase