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Antiferromagnetic Correlation and the Pairing Mechanism of the Cuprates and Iron Pnictides : a View From the Functional Renormalization Group Studies[1]

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We study the pairing symmetry of the iron pnictide superconductor using the functional renormalization group method. By comparing the results for the cuprates and the iron pnictides a coherent picture emerges. It suggests that antiferromagnetic correlation causes pairing for both materials. In collaboration with Fa Wang, Hui Zhai, Ying Ran, and Ashvin Vishwanath, University of California, Berkeley.

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