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Global phase diagram and the spin structure in the Fe-based superconductors KANGJUN SEO, CHEN FANG, JIANG-PING HU, Purdue University, B. ANDREI BERNEVIG, Princeton University — We study the global phase diagram and calculate the spin susceptibility for different states based on a two-orbital $J_1 - J_2$ model for Fe-based superconductors. Unique features associated with the unconventional $s_{x^2-y^2} \sim \cos(k_x)\cos(k_y)$ wave pairing symmetry are identified.

Prefer Oral Session
 Prefer Poster Session

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