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Physical Properties in a 5-Band Spin Flucutuation Theory of Ferropnictides GREG BOYD, SIEGFRIED GRASER, VIVEK MISHRA, PETER HIRSCHFELD, University of Florida — Within a 5 band spin fluctuation model for the ferropnictides, we give predictions for experimentally measurable quantities in the superconducting state. A BCS-RPA approach is used to examine the leading superconducting instabilities and determine the thermodynamically stable ground state. We then present results for superfluid density, nuclear magnetic relaxation, and Raman scattering.

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