

Abstract Submitted  
for the MAR09 Meeting of  
The American Physical Society

**Parquet formalism applied to pnictide superconductors** JUN LIU, KARLIS MIKELSONS, SHUXIANG YANG, HERBERT FOTSO , MARK JARRELL, Louisiana State University — DMFT combined with Parquet approximation is used to study the single particle property of pnictide superconductors (such as FeSe, SrFe<sub>2</sub>As<sub>2</sub>,...) in an attempt to understand the enhancement of superconductivity under pressure. By tracking the evolution of one-particle spectral function, pressure dependence of this type of compound is studied in depth. In the study, inhomogeneous frequency grid is used to high frequency summation.

Jun Liu  
Louisiana State University

Date submitted: 09 Feb 2009

Electronic form version 1.4