

- Weak-coupling instability to d -wave superconductivity, Ψ .
- Superconductivity survives at strong-coupling with critical antiferromagnetism
- Secondary instability to incommensurate d -wave bond order, Φ_x , Φ_y
- X-ray scattering in underdoped YBCO is described by angular thermal fluctuations of a 6-component order parameter, Ψ , Φ_x , Φ_y .
- Possible quantum critical point at optimal doping involving onset of Ising-nematic order $\phi = |\Phi_x|^2 - |\Phi_y|^2$