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Neutron Scattering in Co Doped NaFeAs YU SONG, CHENGLIN ZHANG, SCOTT CARR, ZACHARY COLE, NICOLAS LUTTRELL, PENGCHENG DAI, University of Tennessee — In this presentation we will discuss some of our recent neutron scattering work done on Co doped NaFeAs, focusing on the evolution of magnetism and superconductivity with doping. The phase diagram of Co doped NaFeAs is similar to Co,Ni doped BaFe₂As₂, but also show significant differences in the magnetic response despite the similar T_c in both systems. Thus by comparing these systems, we attempt to find common features for unconventional superconductivity in both systems.

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