NMR investigation of iron-based high T_c superconductors

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NMR (Nuclear Magnetic Resonance) is a highly versatile, non-destructive, low-energy bulk probe of structural, electronic, magnetic, and superconducting properties of solids. In this talk, we will discuss recent progress in NMR research into iron-based high T_c superconductors, with primary focus on similarities and dissimilarities between $K_xFe_{2-y}Se_2$[1], FeSe [2] , and $Ba(Fe,Co)_2As_2$ [3].

This work was carried out in collaboration with a large number of collaborators, including D.A. Torchetti, M. Fu, F.L. Ning (McMaster), C. Petrovic (Brookhaven National Lab), R.J. Cava (Princeton), A. Sefat (Oak Ridge National Lab), and H.-H. Wen (Nanjing).

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