NMR investigation of iron-selenide and iron-arsenide high $T_c$ superconductors
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We have investigated the electronic, magnetic, and superconducting properties of the iron-selenide high $T_c$ superconductor $\text{K}_x\text{Fe}_2-y\text{Se}_2$ ($T_c = 33$ K) with $^{77}\text{Se}$ NMR [1]. We will compare the results with those observed for FeSe in ambient and applied pressures ($T_c > 9$ K) [2], and with iron-arsenides [3]. Similarities and dissimilarities will be pointed out, with primary focus on the anomalous normal state properties. Our latest work on $\text{K}_x\text{Fe}_2-y\text{Se}_2$ was carried out in collaboration with D. Torchetti, M. Fu, D. Christensen, K. Nelson (McMaster), H. Lei, and C. Petrovic (Brookhaven National Lab).