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Using a HPGe-PIPSBox detector system to compare the noble gases produced by fission from U-235 and Cm-248

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Noble gases are chemically unreactive and therefore the easiest fission fragments to extract from fissioned samples. Krypton and xenon isotopes are relatively highly produced making them good candidates for measurement. Sitting in different mass peaks, their ratio can also be used to differentiate between fission sources. Using a beta-gamma system to measure the extracted gases improve signal-to-noise and thus sensitivity to these radiogases. The poster presents data from Cm-248 and U-235 sources.

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