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Construction and measurements of a vacuum-swing-adsorption radon mitigation system

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In order to reduce backgrounds from radon-daughter plate-out onto the wires of the BetaCage during its assembly, an ultra-low-radon cleanroom is being commissioned at Syracuse University. Air sampling measurements taken before connecting the vacuum-swing-adsorption radon mitigation system demonstrate the effectiveness of air circulation through standard HEPA filters at reducing the concentration of radon daughters in the cleanroom. I will describe details of implementation of the radon mitigation system and measurements of the concentration of radon and radon daughters.

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