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Controlling Rn-222 ingress in the SNO+ detector

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SNO+ is a multi-tonne scale experiment situated at SNOLAB. The primary goal of SNO+ is to search for neutrinoless double beta decay. Another physics goal of SNO+ is to probe low energy solar neutrinos. Rn-222 daughters are problematic backgrounds to physics reach of SNO+. The SNO+ cover gas system is designed in order to prevent Rn-222 ingress in the detector. In this talk, I will present design, development and installation of this system.

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