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## Radon emanation measurements at Boulby

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Radon emanation from materials presents a major background to rare event experiments. This poster will present the dual-detector radon emanation system operating at Boulby Underground Laboratory, which uses two 80L electrostatic alpha detectors. By incorporating a radon concentration line, this will enhance its sensitivity to 222Rn to below 0.1 mBq, providing more accuracy at characterising radioactive emissions from materials to help to build a comprehensive background model.

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