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Boulby Underground Laboratory: Status and plans for the UK's deep underground science facility

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Boulby Underground Laboratory is the UK's deep underground science facility and one of the few special facilities in the world suited to studies requiring ultra-low background radiation experimental space and/or general access to the deep underground environment. Boulby operates in a working polyhalite and salt mine in the North East of England and hosts a range of science from astroparticle physics (Dark Matter and neutrino studies) to Earth and environmental science, astrobiology and planetary exploration technology development. Boulby also operates its BUGS (Boulby Underground Screening) facility with a range of high sensitivity, ultra low background material screening capabilities. STFC and Boulby Lab are now planning for an expansion of facilities and science at Boulby in the coming decade, working towards a major new facility for next generation astroparticle physics projects and more being available from 2030+. This talk will give details of the current Boulby facility and science, and the planned future expansion.

Presenter: PALING, Sean (STFC UKRI, UK)

Session Classification: Overview on Underground Labs research