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Glasgow 10m facility

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In this talk we present the plans in Glasgow to upgrade or 10m interferometer into a cryogenic facility. The facility will utilise a single 10m reference cavity based on suspended fused silica optics, and a pair of Leidon cryocoolers for a short cryogenic reference cavity. The facility is aimed to be a fast turnaround system with studies focussing on ice growth on optics, monitoring cryogenic violin mode ringdowns and characterising fundamental noise sources in silicon test masses, monolithic silicon suspensions, and cryogenic coatings.

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