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Type: **Oral invited talk**

## STJs in Colorado - Fridges at CURIE and Mines

*Wednesday, 14 May 2025 12:15 (20 minutes)*

Together with Maybell Quantum, we are designing a low-vibration dilution refrigerator with a large and modular sample area. This fridge will be installed on the Mines campus and is a first step towards the Colorado Underground Research Institute (CURIE). At CURIE, the muon flux is 500x suppressed, and we will have low – and in-situ characterized – vibration, EMI disturbances, and high temperature stability. We aim to deploy STJs on campus during Fall 2025 and underground by 2027. This presentation will discuss current fridge designs, magnetic shielding, and plans for the upcoming years.

**Primary author:** VAN DE PONTSEELE, Wouter (Colorado School of Mines)

**Presenter:** VAN DE PONTSEELE, Wouter (Colorado School of Mines)

**Session Classification:** BeEST setups at collaborating facilities