

## 9th edition of the international CYGNUS Workshop on Directional Recoil Detection



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### Radon removal using silver-ion exchanged zeolite in gas

*Tuesday, 24 February 2026 09:00 (30 minutes)*

Ag-zeolite is a zeolite modified with silver through ion exchange. Since around 2020, certain Ag-zeolites have been reported to exhibit excellent xenon adsorption in air, and since 2023, some have shown strong radon adsorption in air. Our group has been developing original Ag-zeolites since 2023 for radon removal in underground experiments, testing their performance in air, xenon, and argon. Under the “Underground Rare Event” Transformative Research Area (A) launched in 2024, NEWAGE has also begun exploring radon removal using Ag-zeolite in CF4 gas. This presentation will provide an overview of the current status of our research.

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**Session Classification:** Background studies