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Update on Xe adsorbent development at CEA/DAM

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In the context of the Comprehensive Nuclear Test Ban Treaty (CTBT), CEA/DAM developed about 20 years ago the SPALAX (Système de Prélèvement Automatique en Ligne avec l'Analyse du Xénon) system, which is used in the International Monitoring System to detect xenon releases following a nuclear explosion. This system is still under continuous improvement. In particular, CEA/DAM continues to work on the metal exchanged zeolites (such as Ag@ZSM-5) which are very relevant with regard to the Xe uptake and purification performances. CEA/DAM developed recently a new research pilot to extend its capabilities to test such materials. This presentation aims at providing an update on CEA/DAM material developments.

Promotional text

This study aims to present the results of the implementation of zeolite material in a pilot to capture xenon.

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