

## **3.1-P32. Upgrade of the Swedish noble gas laboratory system**

The latest development of the SAUNA laboratory system for noble gas samples at FOI will be presented. The system is used for a variety purposes ranging from routine reanalysis of samples from the IMS station SEX63, verification of samples during noble gas system development (such as the OSI SAUNA), processing and analysis of subsoil samples. To improve the quality control and to simplify trouble-shooting a state of health system has been installed. Sensors measuring gas pressure, gas flow and temperatures are logged in a database similar to SAUNA-II systems. To simplify the sample processing also the latest version of the SAUNA data acquisition software, developed from the OSI software, has been installed. This result in a much more automated system greatly reducing the manual interaction needed when processing and measuring on samples.

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