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## STAX Project – Data data analysis and interactive data access

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The STAX (Source Term Analysis of Xenon) project aims at the development of a worldwide network to measure radionuclide isotopes released from medical isotope production facilities. A software package has been developed to fully process STAX data from secure data acquisition at the back end, to interactively viewing data at the front end. This presentation focusses on the analysis of data and on the viewing options of the software. An overall dashboard displays the STAX network state of operation and issues at specific stations can be diagnosed through a State-of-Health data viewing interface. In order to increase the confidence in analysis results, stack release data are analyzed in two parallel pipelines: at the STAX systems data are automatically analyzed using analysis software from the monitoring system manufacturers and on the central STAX server, data are analyzed using the autosaint software. Time series of both data sets can be viewed either individually or together and significant discrepancies between the two analysis pipelines can be displayed. User configurable time windows can be set to calculate emission values for specific time intervals. For each individual sample, the raw data as well as a spectrum chart can be accessed via the time series chart.

### Promotional text

This works aims at improving the understanding of the contribution of Xenon background sources to the measured concentrations at IMS stations

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