ID: Type: **Oral**

# of high time-resolution observations of radioxenon releases from BWRs compared to stack data and reactor operation parameters

Monday, 24 June 2019 15:30 (15 minutes)

The newly developed SAUNA III – radioxenon system prototype has been running in Stockholm since 2016 and provided a rich data set of atmospheric radioxenon observations with 6 hour time resolution. A large part of the observed plumes originates from releases from the nuclear power plant Forsmark, located 110 km north of the system, and includes many observations/releases with three or even four isotopes. To gain better understanding of the observed plume shapes and isotopic ratios, data has been compared with stack- and other operational data provided by the plant, in combination with different atmospheric transport models as well as calculations of different nuclear production- and separation scenarios.

Primary author: RINGBOM, Anders (Swedish Defence Research Agency (FOI))

Presenter: RINGBOM, Anders (Swedish Defence Research Agency (FOI))

Session Classification: T2.4 Atmospheric and Subsurface Radionuclide Background and Dispersion

Track Classification: Theme 2. Events and Nuclear Test Sites