

Towards Automatic Noble Gas Data Processing at the Canadian NDC

With the maturation of noble gas monitoring technology and the widespread deployment of this technology throughout the International Monitoring System (IMS), the Canadian NDC receives a large number of noble gas spectra daily. The ability to analyse this data accurately and timely becomes more important for the verification mission as noble gas emissions from recent Democratic People's Republic of Korea nuclear tests has demonstrated. An automatic pipeline has been set up to process the high resolution gamma spectra from Spalax systems. Two years historic data collected in Ottawa have been processed by the pipeline, and the results are compared with the reviewed Aatami results. The feasibility of this pipeline is analysed and discussed. A spectrum fitting tool for automatic Beta-Gamma coincident spectrum processing will be presented and the particular advantages of this approach described.

Primary author: YI, Jing (Health Canada, Radiation Protection Bureau)

Presenter: YI, Jing (Health Canada, Radiation Protection Bureau)

Track Classification: Theme 3. Verification Technologies and Technique Application