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results of world's first Snow White air sampler equipped with LaBr₃ detector

Many countries around the world use high volume samplers to sample air for radioactive particulate measurements. For many years, the Dutch National Institute for Public Health and the Environment (RIVM) performs the sampling and measurements in the Netherlands for environmental monitoring purposes. Since 2011 a Snow White air sampler from manufacturer Senya Oy is used, which is the same air sampler that is used at the particulate stations in the International Monitoring System (IMS) of CTBTO. In January 2025, a new Snow White is installed at a new location to replace the old one. The new Snow White is equipped with a LaBr₃ spectroscopic detector. This detector continuously measures the activity concentration on the filter during the sampling. With this system, an increase in activity concentration can be detected in real time. According to Senya Oy, this is the first Snow White in the world with such a detector. On this poster, the first results of the new system and the new location is presented.

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