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Detector System Configurations for Particulate Stations of the IMS Network

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Coincidence Detector Systems have the potential to increase IMS network sensitivity for Treaty Verification purposes. The study presents the first test implementation of a coincidence detector system for measurement of particulate samples at the CTBTO Test Station VIP00, located on rooftop of Vienna International Centre in Vienna – Austria. The prototype dual/coincidence system setup and its configuration are built upon previous coincidence systems developed at GBL15 (AWE, Aldermaston, United Kingdom), and are part of an ongoing collaboration between the Commission and AWE investigating the potential of these systems to enhance the quality and sensitivity of measurements performed at Radionuclide Stations within the IMS network.

Promotional text

Advanced (operational) coincidence systems for particulate monitoring are in use at several CTBTO laboratories. These systems have the potential to greatly improve the sensitivity of measurements and are being evaluated for deployment on the IMS

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