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Gamma/Neutron detection and identification systems for tracking and inspection of radioactive sources

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The availability of monitoring and inspection tools is a critical asset for a distributed tracking, inspection, and control of radioactive sources. Since more than 10 years our group is actively involved in the development of innovative tools and techniques aimed at supporting on-field operators for preventing and detecting illicit trafficking of Special Nuclear Materials (SNM) and other radioactive sources. This activity has been carried out with different approaches in various EU funded projects, such as MODES_SNM and C-BORD, within FP7 and H2020 programs respectively. We will give an overview of what have been developed within these frameworks so far, deepening on the SNIPER-GN technology which is now the state-of-the-art for gamma/neutron sources detection and identification and which is the key technology for SNM detection in “SILENTBORDER”, a new H2020 project focused on non-intrusive inspection of cargos passing through European borders.

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