



Contribution ID: 139

Type: Oral

Ultra-compact portable gamma detector system based on CdTe

Thursday, 17 March 2016 16:00 (10 minutes)

IEAP CTU group in cooperation with NRPI (National Radiation Protection Institute) and other partners have interests in the field of ultra-compact portable radiation detectors. Detectors of this type can be mounted on UAVs (unmanned aerial vehicles - such as very popular RC drones or model RC aircraft) and perform precise inexpensive large area radiation scans without people being present in the affected area. This is now in high demand and much needed in the event of incident with releases of nuclear material (like Fukushima Daiichi nuclear disaster). For this purpose, a prototype of ultra-compact portable gamma detector system based on CdTe detector was constructed. Preliminary results of measurements with this device and its features will be presented.

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Session Classification: AYSS 2016 competition