Automatic procedure for localisation and dosimetry of wounds with radioactive contamination

T. Slavicek, J. Broulim, M. Prokop (IEAP CTU in Prague)
P. Fojtik, P. Rubovic (NRPI)

- Accidents involving radioactive materials are one of the most dangerous accidents a living organism can be exposed to.
- Individuals and first responders are in the risk during the accidents or interventions, due to radioactive debris impact, due to the depleted uranium ammunition or a malevolent act against individuals.
- Moreover, radioactive contamination of wounds causes internal exposure of the body and standard decontamination procedures cannot be applied.
- In order to deal with such situations, we are developing a measurement system consisting of a robotic arm, array of various detectors and corresponding methodology, which allows to quantify timely the spatial distribution of contamination and the radiation dose for the adequate medical response.