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Fast-Neutron Energy Selective Imaging for Container Screening - and beyond

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This contribution presents a summary of the recently finished “ACCIS” project where the technique of Fast Neutron Resonance Radiography was investigated on its potential as possible candidate for a screening technique of small and medium sized cargo containers.

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The talk will briefly describe the method, the different detector techniques developed and tested in the project and the still ongoing work on producing intense pulsed fast-neutron beams. Furthermore practical aspects of implementation will be addressed, like acceptance of neutron based techniques, legal aspects as well as activation and radiation protection issues.

The talk will finish with conclusions of future applicability of this techniques in civil security and present an outlook on ideas and first experiments and results to alternate applications FNRR and FN-R/-CT for industry, energy and material research.

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