Detector Technology and Systems (DTS)

for applications in the Research Field "Matter" and beyond

ST1 ST2 ST3 ST4 Sensing Quantum and Detecting **System Technologies Detection Methods Technologies Technologies Novel Engineering** Sensor developments Quantum Sensors and **Method and Algorithm** Techniques, Advanced **Production Technologies** Materials, Cooling Development **Electrical and Photonic Optical & Photonic Integrated Circuits** Components Scalable Readout for **Detector and System** (ASICs) and on-detector Superconducting Simulation Intelligence Quantum Devices **Intelligent Data Acquisition** 3D and Interposer System Calibration, **Quantum Sensing** System Design and Interconnection & Reconstruction and **Applications** Integration **Packaging Analysis Methods** DetecTABL: Research Infrastructures for <u>Detec</u>tor Development, <u>Test and Application Beamlines & Labs</u> Interconnect and **Quantum Sensor Test and Application Assembly Facilities Packaging Facilities Production Facilities** Labs & Beamlines

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