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P1.14: Data Processing Engine for Mixed Radiation Field Characterization with Timepix Detectors

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The hybrid semiconductor pixelated detectors of Timepix family provide online particle tracking. Each particle of various types and energies can be tagged with precise time stamp. This makes them suitable for large variety of applications: medical as radiotherapy or radiology, space on board of satellites and International Space Station and many industrial applications. The measured data is complex and several analyses were developed and exploited to derive needed information.

Presented data processing tool “Data Processing Engine”(DPE) comprehends most of these common processing techniques and several specialized ones to provide a user platform for accessible, fast and reliable data analysis for Timepix detectors.

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