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Emission Channeling with Timepix position sensitive detectors

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With the availability of new high resolution position sensitive detectors the opportunity to measure emission channeling patterns with a small angular sampling step arises. The detector used, Timepix, is a cern developed position sensitive detector with a 55um side pixel and a matrix of 512*512. Here will be present the necessary systems for running the detector, measurement, data transfer and data analysis. In addition to the measurement of ^{24}Na and ^{42}K implanted GaN, by both the previous detector with 1.4mm pixel and Timepix.

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