



Contribution ID: 45

Type: **oral**

## **Electron Emission Channeling for lattice location of radioactive isotopes in single crystals: Improvements from a Timepix3 quad detector and new PyFDD data analysis software**

*Tuesday, 6 June 2023 10:30 (20 minutes)*

Electron Emission Channeling is a technique used for the measurement of the lattice location of radioactive isotopes implanted into single crystals. This work reports on how a Timepix3 detector was installed in the experimental setup and the resulting advantages of doing so. It also reports on the data analysis and software updates that were necessary to accompany the increase in data, and number of pixels, which resulted in the development of the PyFDD software.

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**Session Classification:** S1 & S3: Beams Interactions & Acceleration Techniques