

High-energy electrons detection in transmission electron microscopy

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Speaker: L. Mele (Thermo-Fisher)

Silicon-based pixelated detectors are gaining more and more popularity in electron microscopy and their development is boosting the fast growth of this market. Here an introduction to the basic interaction mechanisms of electrons in the energy range 80-300 keV with silicon-based pixelated detectors is given along with a description of the main acquisition techniques in transmission electron microscopy.