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PS1-21: Parametric X-Ray Radiation of 50 MeV Electrons in Crystals

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The results of experimental investigation of the phenomenon of parametric X-ray radiation (PXR) emitted by relativistic electrons with 40-50 MeV energy is presented. Comparison results of propagation of PXR either forward or backward to the motion of relativistic electrons is analyzed. New opportunities for crystal structure analysis with light atoms is offered.

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