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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.

Primary authors: Prof. MKRTCHYAN, Alpik (Institute of Applied Problems of Physics NAS RA); Dr MKRTCHYAN, Artak (Institute of Applied Problems of Physics NAS RA)

Co-authors: Dr BABAYAN, Albert (A. Alikhanian National Laboratory (Yerevan Physics Institute), Armenia, 0036, Alikhanian Br. Str. 2); Mr SOGHOMONYAN, Arkadi (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr GHALUMYAN, Arsen (A. Alikhanian National Laboratory (Yerevan Physics Institute), Armenia, 0036, Alikhanian Br. Str. 2); Mr MOVSISYAN, Artur (Institute of Applied Problems of Physics NAS RA, Yerevan, Armenia); Dr BAGHDASARYAN, Edik (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr HARUTYUNYAN, Eduard (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr AYVAZYAN, Garik (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr MURADYAN, Hovhannes (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Mr MIRAQYAN, Suren (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr NALBANDYAN, Vache (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia); Dr KOCHARYAN, Vahan (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia. National Research Tomsk Polytechnic University 634050, Lenin Avenue 30, Tomsk, Russia.); Dr NIKOGHOSYAN, Valery (A. Alikhanian National Laboratory (Yerevan Physics Institute), Armenia, 0036, Alikhanian Br. Str. 2); Dr MARGARYAN, Vardan (Institute of Applied Problems of Physics of NAS RA, 0014, Hr. Nersisyan str. 25, Yerevan, Armenia)

Presenter: Mr MOVSISYAN, Artur (Institute of Applied Problems of Physics NAS RA, Yerevan, Armenia)

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