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Single event effect study on LGAD: Present status and future prospects of femtosecond laser studies at ELI

Currently, a majority of the research has been focused on LGAD stability and irreversible breakdown. Single event effect has been extensively researched in femtosecond laser studies at ELI Beamlines. In this presentation we will mainly focus on future activities aiming to aid us in bettering our understanding of the underlying mechanism causing the destruction. An overview of the present status and up to now accumulated knowledge will be reported. Unique TCT-SPA/TPA set up at ELI Beamlines will be explained as well as future upgrades.

Primary author: LASTOVICKA MEDIN, Gordana (University of Montenegro (ME))

Co-authors: KRAMBERGER, Gregor (Jozef Stefan Institute (SI)); Dr REBARZ, Mateusz (Extreme Light Infrastructure); Dr ANDREASSON, Jakob (Extreme Light Infrastructure); Mr KROPIELNICZKI, Kamil (Extreme Light Infrastructure); KROLL, Jiri (Czech Academy of Sciences (CZ)); LASTOVICKA, Tomas (Czech Academy of Sciences (CZ)); TOMASEK, Michal (Acad. of Sciences of the Czech Rep. (CZ)); CARTIGLIA, Nicolo (INFN Torino (IT)); SOLA, Valentina (Universita e INFN Torino (IT))

Presenter: LASTOVICKA MEDIN, Gordana (University of Montenegro (ME))