



Contribution ID: 13

Type: Oral

Toward event reconstruction in an active-target TPC with strip readout

Monday, 25 October 2021 14:05 (20 minutes)

An active-target Time Projection Chamber with electronic readout has been developed at the University of Warsaw. The ability to accurately reconstruct events is critical for the success of the experiments using this detector. For this purpose a novel set of data analysis tools is being built. Several methods and algorithms have been considered and investigated.

In my talk, I will present the current state the event reconstruction procedures and show its capabilities. I will discuss the challenges faced by our data analysis and which solutions we have adopted.

This scientific work is supported by the Polish Ministry of Science and Higher Education from the funds for years 2019-2021 dedicated to implement the international co-funded project no. 4087/ELI-NP/2018/0, by University of Connecticut under the Collaborative Research Contract no. UConn-LNS_UW/7/2018 and by the National Science Centre, Poland, under Contract no. UMO-2019/33/B/ST2/02176.

Primary authors: Mr FILA, Mateusz (Faculty of Physics, University of Warsaw); ON BEHALF OF THE WARSAW ELITPC GROUP

Presenter: Mr FILA, Mateusz (Faculty of Physics, University of Warsaw)

Session Classification: Session 2