

6th Beam Telescopes and Test Beams Workshop 2018



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The Proteus beam telescope reconstruction package

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Beam telescopes are one of the key tools to investigate novel sensor prototypes. Successful measurement campaigns rely on fast and user-friendly reconstruction to produce relevant results in a timely fashion. The Proteus software is the reconstruction package used for the Geneva FE-I4 telescope. It supports streamlined event processing, support for complex sensors with multiple sub-matrices, and robust alignment procedures. Recently, we added support for additional input data formats and extended track fitting algorithms. This talk will introduce the software design and discuss its basic structure and functionality. Performance examples using simulations and data from the Geneva FEI-4 telescope will be shown.

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