

2014 CERN test beam – Paper status



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Structure

- The basis is the LCWS15, Whistler writeup :
C15-11-02.1, arXiv:1604.00276 [physics.ins-det]
- Asked Jakub to add short section on S/N (waiting for a response)
- Itamar and Sasha are working on the Moliere part
- Plan is to send to FCAL a first draft in two weeks

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Results from a test beam of a four-plane module of LumiCal and its effective Molière radius

The FCAL collaboration
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ABSTRACT: A prototype of a luminometer, designed for a future e^+e^- collider detector, and consisting at present of a four-plane module, was tested in the CERN PS accelerator T9 beam. The objective of this test beam was to demonstrate a multi-plane operation, to study the development of the electromagnetic shower and to compare it with MC simulations. In addition, the effective Molière radius of this configuration is calculated.