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Subject: LiC Detector Toy

Posted by [mitaroff](#) on Mon, 24 Jul 2006 14:08:17 GMT

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A simple but powerful software tool for detector design studies, aimed at investigating the resolution of fitted track parameters in the vertex region for the purpose of comparing and optimizing the track sensitive devices and the material budgets of various detector set-ups. This is achieved by a mini simulation of the set-up (rotational symmetric w.r.t. the beam axis, homogeneous magnetic field), followed by a full track reconstruction.

A first presentation has been made by Meinhard Regler ([regler@hephy.oeaw.ac.at](mailto:regler@hephy.oeaw.ac.at)) at the 3rd SiLC Collaboration Meeting last June in Liverpool; his slides can be downloaded from [here](#) .

The package is written in MatLab. A pre-release, covering only "barrel region" tracks, is available from Meinhard. Preliminary documentation can be downloaded from [http://www.hephy.oeaw.ac.at/p3w/ilc/reports/LiC\\_Det\\_Toy/UserGuide.pdf](http://www.hephy.oeaw.ac.at/p3w/ilc/reports/LiC_Det_Toy/UserGuide.pdf).

Recent addition is a simple interface to the VERTIGO DataSeeder for vertex reconstruction by the RAVE toolkit. An official release, including also the "forward/backward region", is due by autumn this year.

Cheers, Winfried

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