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Subject: Workshop Info

Posted by [mwoods](#) on Wed, 24 Nov 2004 01:10:39 GMT

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This Workshop will be held Jan. 6-8, 2005 at SLAC.

Scope and Goals

Evaluate "experiment impact" of the ILC design. The ILC Design impacts the ILC Detector and Physics, beyond just the delivered luminosity and energy reach. The Machine-Detector Interface (MDI) group needs to evaluate how the ILC design impacts the Experiment (Detector design and physics capabilities) and how the Experimental requirements impact the ILC design.

Give input to both the ILC Beam Delivery Group and the World-wide Study for ILC Physics and Detectors regarding critical choices, beam tests, the CDR and the TDR.

Address viability and issues for crossing angle choices: head-on, 300-mrad vertical, 2-mrad horizontal, 7-mrad horizontal, 12-25 mrad horizontal

Form international sub-groups working on individual topics, and identify available and needed resources.

This Workshop is an important milestone: preparing for the CDR and for subsequent meetings at LCWS (March 2005) and Snowmass (August 2005).

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Subject: Beam optics for energy, pol measurements

Posted by [mwoods](#) on Thu, 25 Nov 2004 07:03:29 GMT

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Comments on some SLAC work towards developing beam optics for energy and polarization measurements:

At the KEK Workshop, WG4 decided to develop a complete Beam Delivery System including 2 IRs, one with a 20-mrad crossing angle (to be evaluated in range 12-25 mrad) and one with a 2-mrad crossing angle (to be evaluated in region 2-7 mrad).

At SLAC Yuri Nosochkov is working on the 20-mrad extraction line design, which includes separate energy and polarimetry chicanes (see sketch).

Next, Yuri will work on 2-mrad extraction line, initially with no beam diagnostics. (Later we can worry about adding diagnostics).

Upstream BDS for 2-mrad needs to include E,P measurements. For a strawman design, I propose we use the 4-magnet chicane described by Ray Arnold on slide 6 of his Nov. IPBI presentation, This energy chicane needs to go downstream of the energy collimation. For polarimetry Ken Moffeit and I propose as a strawman to duplicate roughly (larger separation between middle 2 magnets) the energy chicane design for a polarimeter chicane, but locate upstream of the energy collimation (see sketch). Also, want beam trajectory at middle of polarimeter chicane parallel to IP (though chicane also allows possibility for using the chicane to match the trajectory). Upstream BDS for 20-mrad. Would prefer this to include similar energy and polarimeter chicanes as the 2-mrad BDS. But this is lower priority and can come later.

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Subject: Phone call-in available  
Posted by [mwoods](#) on Wed, 05 Jan 2005 22:59:10 GMT  
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We have had a few requests for audio hookup for the MDI Workshop, being held at SLAC January 6-8. Hence, we have set up a phone conference call for this and will make this work on a "best effort" basis. The call-in info is given below. We have requested speakers to make their talks available prior to giving the talks so that we may post them to the MDI web page location, accessible from <http://www-conf.slac.stanford.edu/mdi/sessions.htm> (a few talks are already posted).

The call-in number is 510-665-5437 (20 lines available).  
Passcode number 4338 for the morning sessions.  
Passcode number 1907 for the afternoon sessions.

Mike Woods (on behalf of the MDI Workshop Local Organizing Committee)

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