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Subject: Considerations for Energy, Polarization Diagnostics  
Posted by [mwoods](#) on Fri, 03 Dec 2004 00:05:04 GMT  
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(This message was initially posted to the MDI Workshop forum/topic on Nov. 24)

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

[http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/08dec2004/20mrad\\_extline\\_diagnostics.jpg](http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/08dec2004/20mrad_extline_diagnostics.jpg)).

Next, Yuri will work on 2-mrad extraction line, initially with no beam diagnostics. (If this is successful with acceptable beam losses, will later look into adding E,P 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 (see

[http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/03nov2004/Chicane\\_Issues.pdf](http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/03nov2004/Chicane_Issues.pdf)

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

[http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/08dec2004/Pol\\_Chicane\\_Upstream.jpg](http://www.slac.stanford.edu/xorg/lcd/ipbi/monthlymeetings/08dec2004/Pol_Chicane_Upstream.jpg)).

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 in SLAC studies and will be investigated later.

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Subject: Optics and lasers  
Posted by [lens33](#) on Tue, 30 Jan 2007 03:06:41 GMT  
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A really cool application of precision lens is lasers. [www.dragonlasers.com](http://www.dragonlasers.com) is on of the cheapest quality online laser sellers.

I've bought one of their lasers so i know this for a fact. If you do buy one of their lasers, mention the name Matthew M. I'm trying to build up some credibility there.

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