

MDI Issues and Organization

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Primary Role of MDI

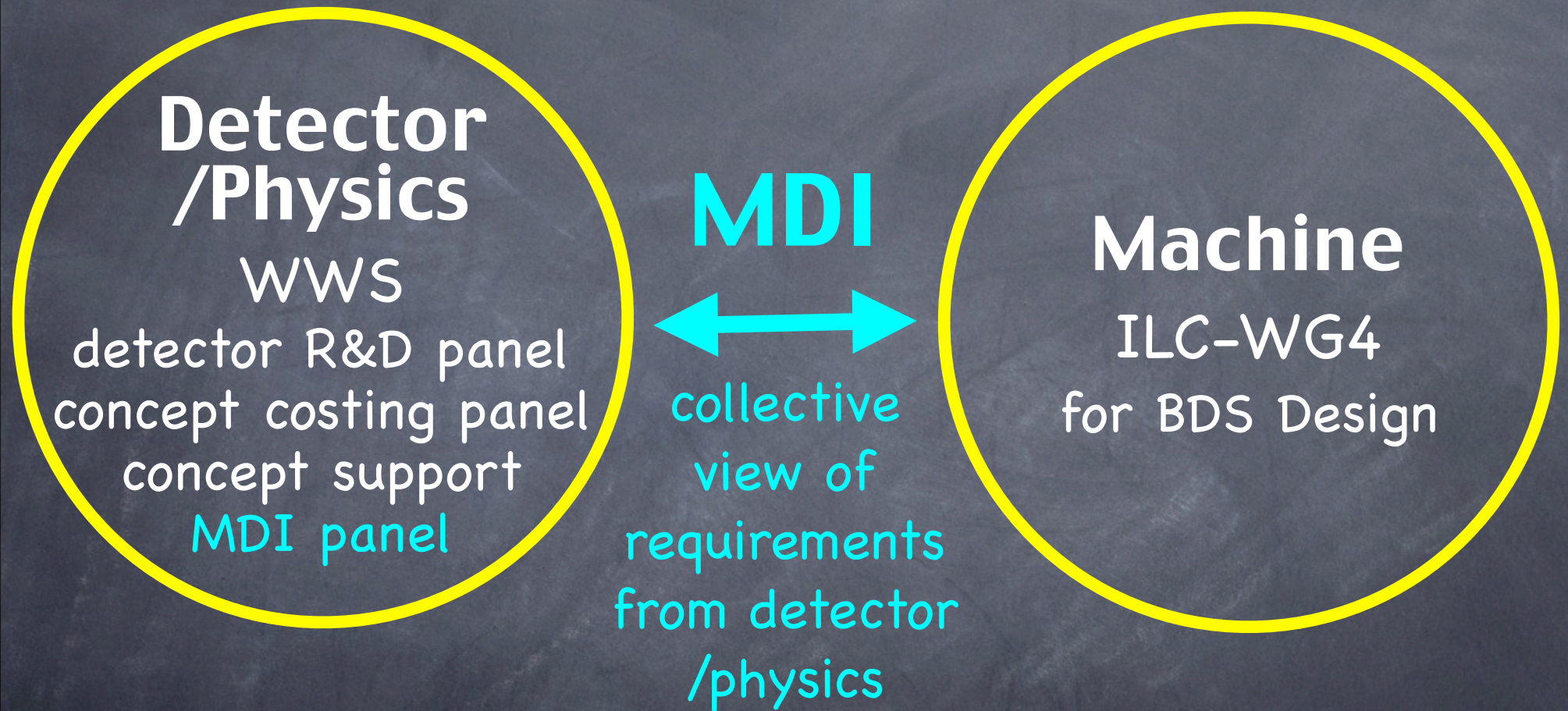
Major task of MDI is to clarify requirements from the experimental side for the accelerator physicists to design the BDS.

MDI issues

System	Machine	Detector
BDS	Crossing angles 2 IPs; "identical" experiments Collimation depth Precise E/P measurements	Backgrounds: μ , synchrotron γ
IR	L^* : distance of Final-Q from IP	Solenoid field: $B=3 - 5$ Tesla Min. angle: very forward cal. Precise luminosity measurement Backgrounds: pairs, mini-jets, back-scattered γ, n ; RF-effects Instrumentation: pair/Shintake monitors, feedback, Nano-BPM, laser-wire etc.
Extraction	Crossing angle Choice of Final-Q (L^*) Precise E/P measurements	Backgrounds: disrupted beam, back-scattered γ, n Beamstrahlung monitor

Under the GDI/GDE

(Global Design Initiative/Effort)



MDI consists of WWS-MDI and ILC-WG4, and it is coordinated by the MDI panel ?

MDI sub groups ?

Main MDI topics \Rightarrow session convenors

- Energy and luminosity spectrum S. Boogart, K. Kubo
- Polarimetry K. Moffeit, K. Mönig
- Very forward region W. Lohmann, H. Yamamoto
- Backgrounds K. Büsser, T. Maruyama
- IR layout, crossing-angles T. Tauchi, A. Seryi
- Beam RF effects M. Woods

Layout of Two BDSs: ILC-WG1 ?