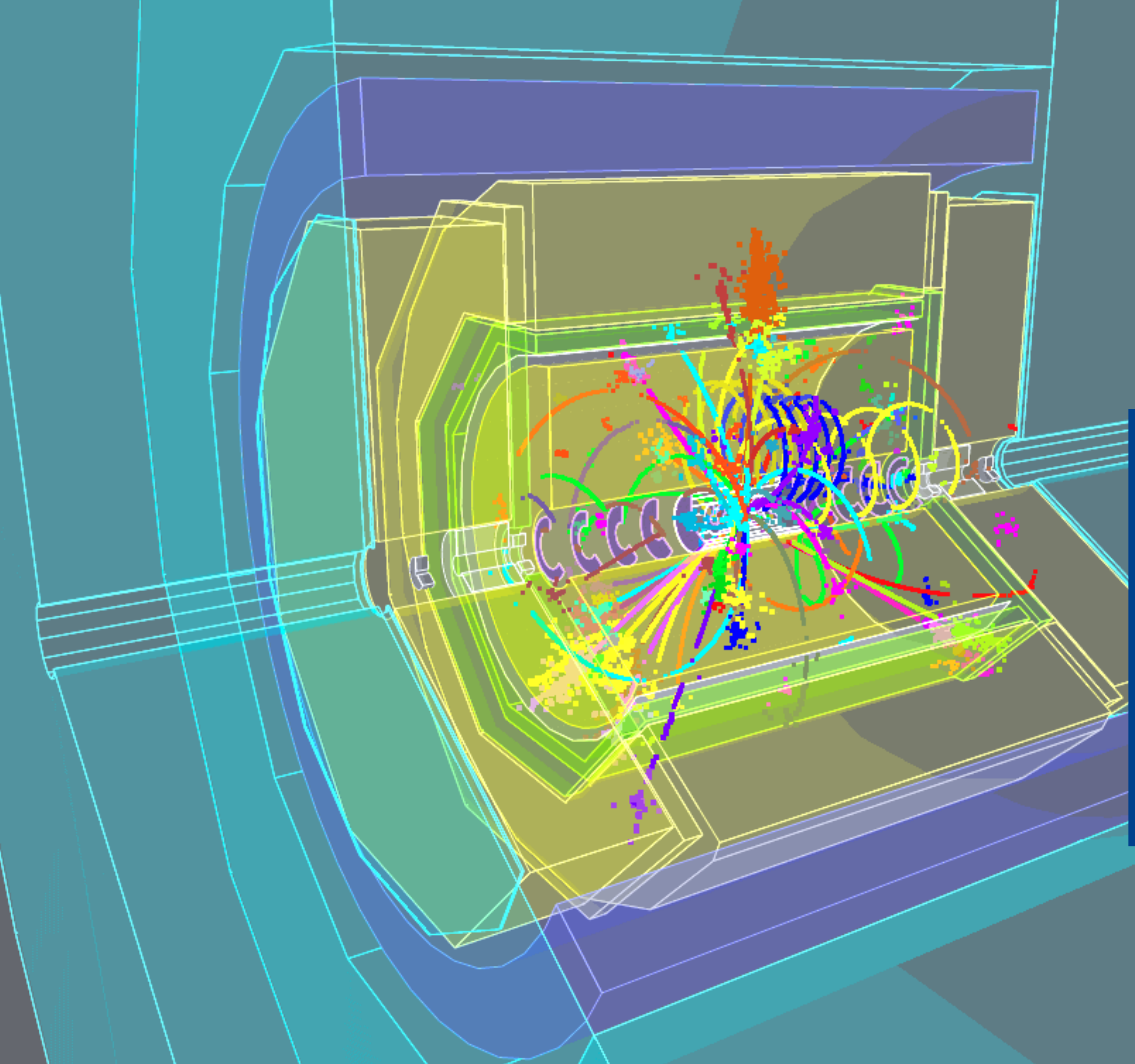
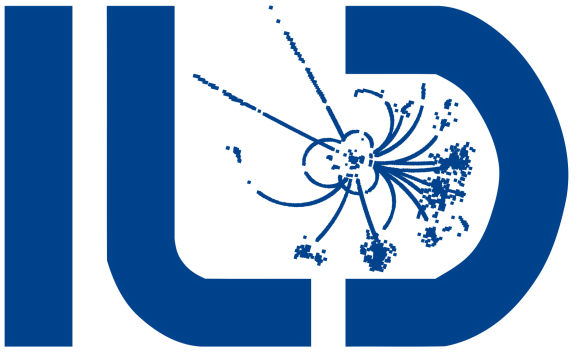


ILD Benchmarking Days - Introduction

**J. List
Arlington
ILD Benchmarking Days
October 19, 2018**



Welcome !



Why are we here?

- by the end of the year, ILD plans to complete the IDR
- **we are here to prepare the input to Section 8:**
 - review status of standard & high-level reconstruction and of physics benchmarks
 - support analyzers who are not yet very familiar with iLCSoft
 - **select material for the IDR**

8	Detector and Physics Performance	23
8.1	System performance	23
8.1.1	Vertexing	23
8.1.2	Tracking	23
8.1.3	Particle flow performance	23
8.1.4	Particle identification	23
8.2	High-level Reconstruction Performance	23
8.3	Physics Benchmarks	23
8.3.1	General Remarks	23
8.3.2	Hadronic Branching Ratios of the Higgs Boson	23
8.3.3	Higgs Mass from $H \rightarrow b\bar{b}$	23
8.3.4	Branching Ratio of $H \rightarrow \mu^+\mu^-$	23
8.3.5	Sensitivity to $H \rightarrow$ invisible	23
8.3.6	τ decay modes and polarisation, A_{FB} and A_{LR} in $e^+e^- \rightarrow \tau^+\tau^-$	23
8.3.7	W mass, Triple Gauge Couplings and Beam Polarisation from $e^+e^- \rightarrow WW \rightarrow qq\ell\nu$	23
8.3.8	Quartic Gauge Couplings in $e^+e^- \rightarrow \nu\nu qqqq$	23
8.3.9	A_{LR} and Jet Energy Scale Calibration from $e^+e^- \rightarrow \gamma Z$	23
8.3.10	A_{FB} and A_{LR} from $t\bar{t} \rightarrow b\bar{b}qqqq$	23
8.3.11	Discovery Reach for extra Higgs Bosons in $e^+e^- \rightarrow Zh$	23
8.3.12	Discovery Reach for and Characterisation of low ΔM Higgsinos	23
8.3.13	WIMP Discovery Reach and Characterisation in the Mono-Photon Channel	23

Format of Meeting

Each day is dedicated to one family of performance topics:

- Today:
tracking & isolated leptons
- Saturday:
PID, tau's, vertexing, flavour tag
- Sunday:
jet energy scale & resolution

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Basic schedule of each day:

- block on (high-level) reconstruction performance
- block on benchmark analyses
- lunch :-)
- time for discussions / hands-on work in small groups
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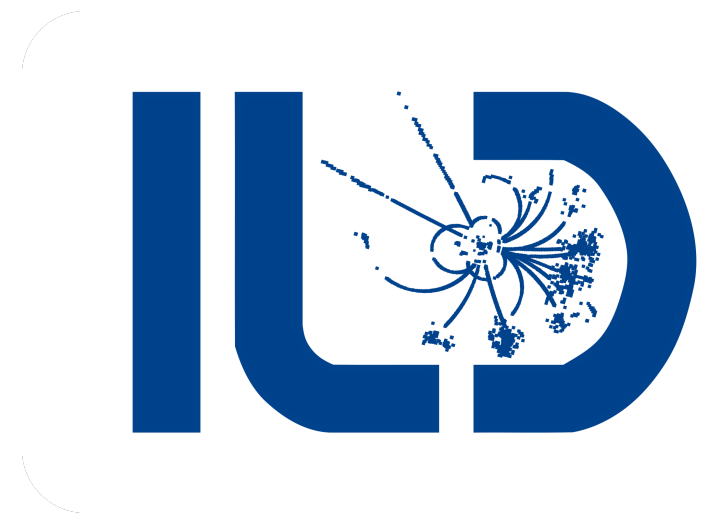
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This format lives from active participation from all of you - not just by giving your own talk!



Practical things:

- registration desk for LCWS open this morning (hope you all used it! ;-)
- we'll have some coffee break service today
- Saturday/Sunday => Starbucks in the University Center
- no "official" dinner organised - but presumably could be arranged if desired?

Fruitful discussions!