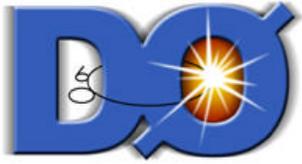




Update on Simulation Status

Mike Hildreth
And
Emmanuelle Perez



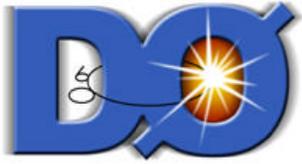
Main Efforts

- **Regeneration of test samples with p13**
 - ◆ better geometries
 - ◆ more realistic detector simulations
- **Algorithmic development**
 - ◆ feedback for track, cal, trk-cal design



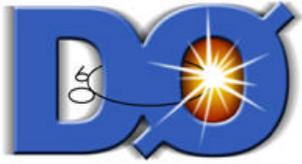
p 13 MC Physics Samples

Process	7.5 mb	14 mb	1.1 mb	0 mb	Comments
ZH \otimes nbb	5000	5000	5000		Jets+MET, MH=120
	5000				MH=90, topol cuts
	5000				MH=135, topol cuts
WH \otimes nebb	5000			5000	EM, MET
Z \otimes ee	5000	5000	5000		EM without jets
W \otimes en	5000				EM without jets
H \otimes tt	5000	5000	5000	5000	Tau, MH = 120
gg \otimes H \otimes WW	5000				MH=180, W \otimes en
bbh	5000		5000		Jets & Topo cuts



p13 Special Samples

Process	7.5 mb	14 mb	1.1 mb	0 mb	Comments
QCD					
$p_t = 5-10$	100k	100k	100k		background
$p_t = 10-20$	40000	20000	20000		
$p_t = 20-40$	15000	7500	7500		
$p_t > 40$	15000	7500	7500		
Single Particles	10k @				
e					10-100 GeV
t					10-100 GeV
e					15 GeV
t					15 GeV



Algorithmic Development

- L1CTT

- ◆ studies of impact-parameter efficiency dependence underway
- ◆ “as built” geometry will (finally) be in p15
 - can “patch” p13 release for farms so that we get the correct geometry (CAB?)
 - need this for Run 2a!
 - will allow check of number of equations for the “real” CFT and the new algorithms.



Algorithmic Development

- **L1CAL**
 - ◆ Detailed studies waiting on new MC
 - ◆ try to refine physics understanding of necessary trigger terms
- **Trk-Cal (Erich)**

- **Issues of event generation**
 - ◆ Farms or CAB?
 - ◆ organization of cards files, etc.
 - ◆ new minbias tune?