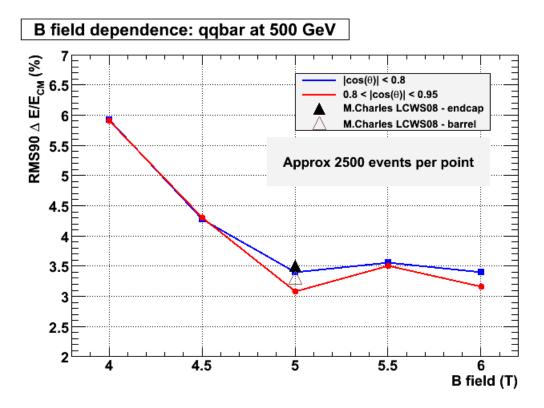
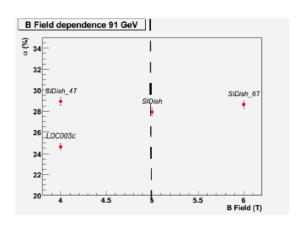
Status report on SiD global parameters study and PFA activities at MIT

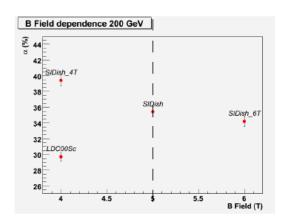
Peter Fisher
Ray Cowan
24 September 2009

B-field study: sid02

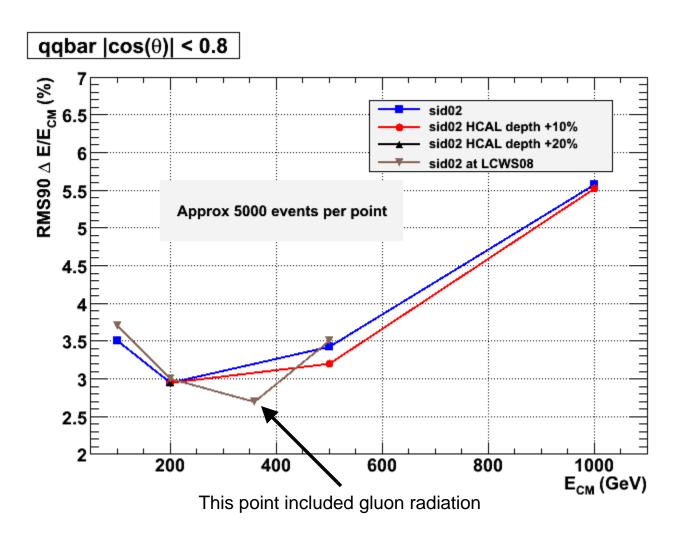




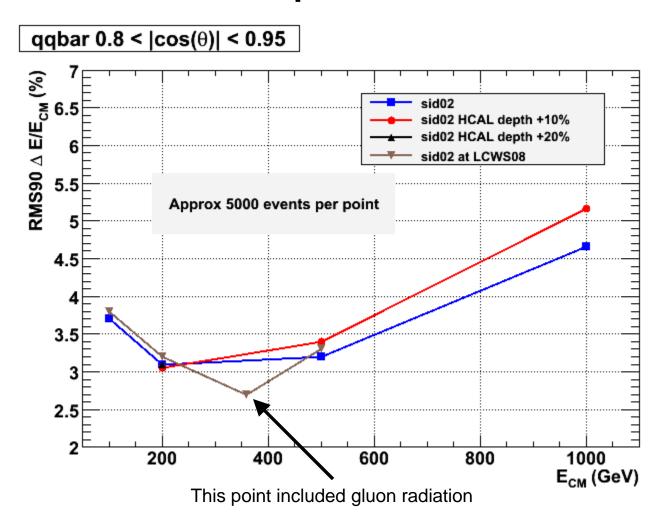
Marcel's "sidish" B-field study at 91 (above) and 200 GeV (below)



Sid02 HCAL depth variants: barrel



Sid02 HCAL depth variants: endcap



In the pipeline at MIT

- Finish HCAL depth +10% and +20% running
 - Re-running qqbar 100 GeV points
 - Book-keeping mistake invalidated original runs
 - Finish 500 and 1000 GeV points for +20% variant
- Sid02 "stretched"
 - by 10% and 20% at ECAL endcap inner_Z
 - 1.7m, 1.9m, 2.1m
- HCAL segmentation study
 - $-\frac{1}{2}$ x $\frac{1}{2}$ cm instead of 1x1 cm
- Others to come

Sid02 calibration changes

A few big changes (red)

Other changes at the 1–10% level

	"Off	icial" sid02	Ou	r calibrations
EMBarrel				
	samplingFrac	ction: .017501		.00182
	samplingFrac	ction[21-30]: .0093678		.00980
EMEndcap	–			0.4700
	. •	ction: .016495		.01706
HADBarrel	samplingFrac	ction[21-30]: .0086669		.008585
ПАДВапеі	digital: true			true
	samplingFrac	ction: 8.6503		7.867
HADEndcap	осрg. тос.			
•	digital: true			true
	samplingFrac	ction: 7.5778		6.996
MuonBarrel				
	digital: true			true
MuonEdnoon	samplingFraction: 1.7264			1.28085
MuonEdncap	cap digital: true			true
	•	ction: 0.6056		0.82171
Photon	oampinigi ra	3.1011. 0.0000		0.02111
	old: SFs: 0.017956,0.0088		999,	,0.017176,0.0081311
	new:	SFs: 0.018138,0.0085	473	,0.017165,0.0081964
Hadron				
	old:	· ·		,0.014886,0.0085305,9.4114,8.4259
	new:	SFs: 0.014332,0.0087	303,	,0.014975,0.0095047,9.3757,8.4769