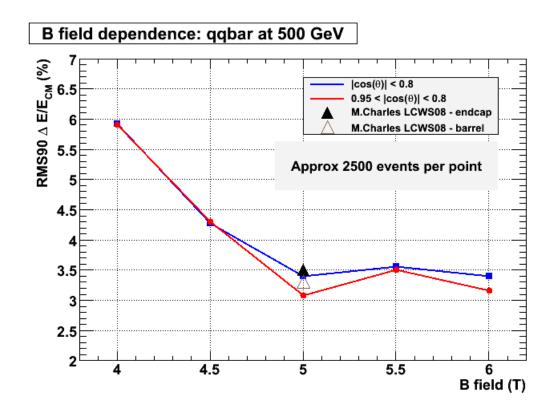
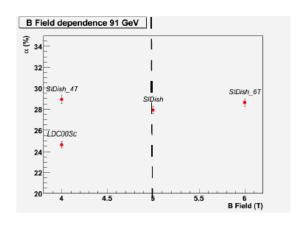
Status report on SiD global parameters study and PFA activities at MIT

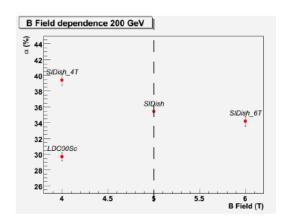
Ray Cowan
Peter Fisher
22 September 2009

B-field study: sid02

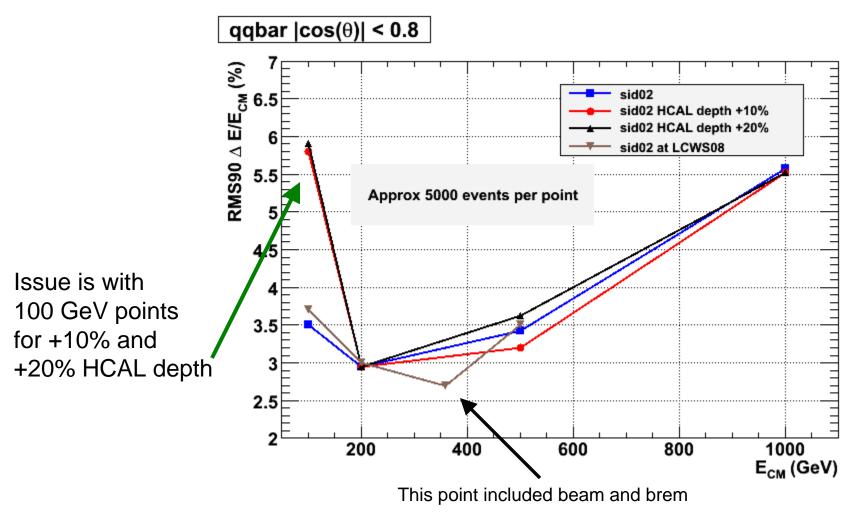




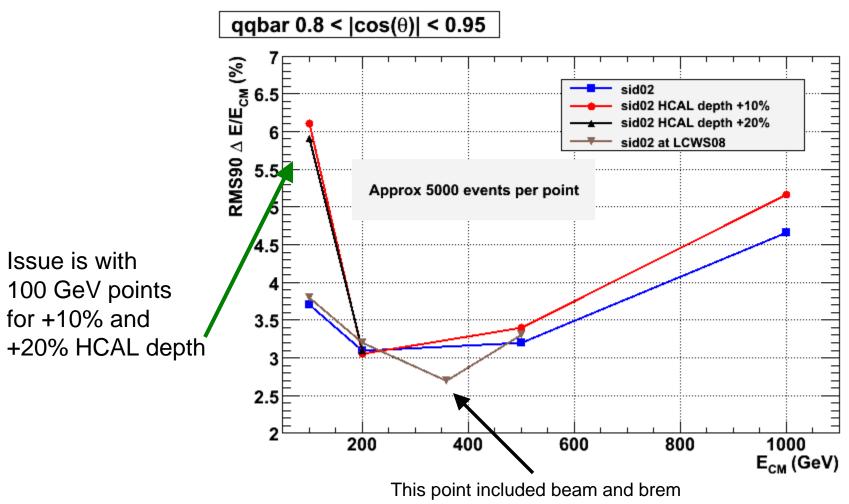
Marcel "sidish" LCWS08



Sid02 HCAL depth variants: barrel



Sid02 HCAL depth variants: endcap



In the pipeline at MIT

- Finish HCAL +20% running
- Sid02 "stretched" by 10% and 20% at ECAL endcap inner_Z
 - 1.7m, 1.9m, 2.1m
- HCAL segmentation study
 - ½ x ½ cm instead of 1x1 cm

Sid02 calibration changes

A few big changes (red)

Other changes at the 1–10% level

	"Off	icial" sid02	Our calibrations	
EMBarrel				
	samplingFra	ction: .017501	.00182	
	samplingFra	ction[21-30]: .0093678	.00980	
EMEndcap			2.1-22	
	. •	ction: .016495	.01706	
LIADDown	samplingFra	ction[21-30]: .0086669	.008585	
HADBarrel	digital: true		true	
	•	ction: 8.6503	7.867	
HADEndcap		CIIO11. 0.0303	7.007	
i ii (D E i iacap	digital: true		true	
	•	ction: 7.5778	6.996	
MuonBarrel				
	digital: true		true	
	samplingFra	ction: 1.7264	1.28085	
MuonEdncar)			
	digital: true		true	
	samplingFraction: 0.6056		0.82171	
Photon		0=		
	old:	•	8999,0.017176,0.0081311	
l la due a	new:	SFs: 0.018138,0.0085	5473,0.017165,0.0081964	
Hadron	old:	SEa: 0.014044.0.0006	5513,0.014886,0.0085305,9.4114,8.42	EC
	new:	•	7303,0.014666,0.0065305,9.4114,6.42	
	HEVV.	01 3. 0.014332,0.0001	1303,0.014813,0.00800413.313130.41	υċ