

Scenarios:

Table entry	Settings
Sept - 2011	Moore v12r9p1, PhysicsSept2011
May 2012	Moore v14r2, PhysicsMay2012
July 2012 A	Moore v14r5p2, PhysicsJune2012, out-of-the-box
July 2012 B	Moore v14r5p2, PhysicsJune2012, TrackAllL0_prescale=0
July 2012 C	Moore v14r5p2, PhysicsJune2012, LooseForward: 300->500 MeV, TrackAllL0_PT: 1500->1
July 2012 D	Moore v14r5p2, PhysicsJune2012, LooseForward: 300->500 MeV, TrackAllL0=TrackAllL0Ti
















































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sample	Sept - 2011	May - 2012	July - 2012 A	July - 2012 B	July - 2012 C	July - 2012 D
MB (high mu)	0.34 0.08	0.42 0.09	0.46 0.10	0.34 0.08	0.44 0.09	0.34 0.08
MB D->hh (A)	10.50 0.97	10.00 0.95	11.10 0.99	10.10 0.95	10.90 0.99	10.10 0.95
MB D->hhh	8.10 0.86	9.90 0.94	12.40 1.04	9.60 0.93	11.50 1.01	9.60 0.93
MC10 B->JPsi Phi	77.50 1.32	75.30 1.36	76.50 1.34	75.60 1.36	76.10 1.35	75.60 1.36
MC10 B->hh	53.80 1.58	50.70 1.58	52.80 1.58	50.40 1.58	52.30 1.58	50.40 1.58
MC10 B->K*mu mu	77.00 1.33	75.30 1.36	78.50 1.30	77.90 1.31	78.30 1.30	77.80 1.31
MC10 B->mu mu	91.60 0.88	91.80 0.87	91.90 0.86	91.90 0.86	91.90 0.86	91.90 0.86
MC10 tau->3mu	50.60 1.58	50.20 1.58	54.90 1.57	54.10 1.58	54.10 1.58	53.60 1.58
MC10 D->Ks HH	1.40 0.37	7.20 0.82	8.00 0.86	7.10 0.81	7.50 0.83	7.10 0.81
MC11 Bs->MlNuXD (phi pi)	51.20 1.58	54.50 1.57	56.50 1.57	54.20 1.58	55.60 1.57	54.20 1.58
MC11 D*->pi (D0->Kpi pi 0)	None	21.05 2.96	20.53 2.93	19.47 2.87	20.00 2.90	19.47 2.87

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sample	Sept - 2011	May - 2012	July - 2012 A	July - 2012 B	July - 2012 C	July - 2012 D
MB (high mu)	3.76 0.27	3.76 0.27	6.92 0.36	4.58 0.30	5.92 0.33	4.48 0.29
MB D->hh (A)	14.80 1.12	13.30 1.07	14.60 1.12	13.40 1.08	14.30 1.11	13.40 1.08
MB D->hhh	14.00 1.10	13.80 1.09	17.80 1.21	13.80 1.09	16.70 1.18	13.80 1.09

H t E f f i c i e n c i e s F o r J u n e 2 0 1 2 M b o r e v 1 4 r 5 p 2 < L H C b < T W k i

MC10 B- > J P s i P h i	81.50  1.23	76.30  1.34	79.50  1.28	78.50  1.30	78.90  1.29	78.40  1.30
MC10 B- > h h	58.50  1.56	54.00  1.58	56.60  1.57	53.70  1.58	56.20  1.57	53.70  1.58
MC10 B- > K* m u m u	81.60  1.23	77.40  1.32	80.70  1.25	80.10  1.26	80.60  1.25	80.00  1.26
MC10 B- > m u m u	95.60  0.65	95.40  0.66	95.70  0.64	95.70  0.64	95.70  0.64	95.70  0.64
MC10 t a u - > 3 m u	58.90  1.56	53.70  1.58	58.80  1.56	58.10  1.56	57.80  1.56	57.30  1.56
MC10 D- > K s H H	12.70  1.05	10.90  0.99	12.80  1.06	11.30  1.00	12.20  1.03	11.30  1.00
MC11 Bs - > M u N u X D s (p h i p i)	68.90  1.46	70.50  1.44	72.30  1.42	70.80  1.44	71.90  1.42	70.70  1.44
MC11 D* - > p i (D 0 - > K p i p i 0)	None	30.53  3.34	35.79  3.48	29.47  3.31	31.58  3.37	29.47  3.31

L 0 b i t 1 1

s a m p l e	S e p t - 2 0 1 1	M a y - 2 0 1 2	Jul y - 2 0 1 2	Jul y - 2 0 1 2	Jul y - 2 0 1 2	Jul y - 2 0 1 2
			A	B	C	D
MB (h i g h m u)	98.04	95.52	97.72	97.72	97.72	97.72
MB D- > h h (A)	26.3	23.9	24.1	24.1	24.1	24.1
MB D- > h h h	26.8	28.0	28.0	28.0	28.0	28.0
MC10 B- > J P s i P h i	89.9	84.1	85.5	85.5	85.5	85.5
MC10 B- > h h	65.8	61.8	61.7	61.7	61.7	61.7
MC10 B- > K* m u m u	86.6	81.2	83.3	83.3	83.3	83.3
MC10 B- > m u m u	97.4	96.8	96.9	96.9	96.9	96.9
MC10 t a u - > 3 m u	70.8	63.7	66.3	66.3	66.3	66.3
MC10 D- > K s H H	25.8	23.0	23.2	23.2	23.2	23.2
MC11 Bs - > M u N u X D s (p h i p i)	79.5	79.5	79.5	79.5	79.5	79.5
MC11 D* - > p i (D 0 - > K p i p i 0)	0.0	47.895	47.895	47.895	47.895	47.895

-- M k a V e s t e r i n e n - 2 7 - J u n - 2 0 1 2

This t o p i c : L H C b > H t E f f i c i e n c i e s F o r J u n e 2 0 1 2 M b o r e v 1 4 r 5 p 2

T o p i c r e v i s i o n : r 3 - 2 0 1 2 - 0 6 - 2 7 - M k a V e s t e r i n e n



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