



## Selection Status Trigger Benchmark Channels

Channel	Sel/Stripped	Frac	$\epsilon_{max}$	$\frac{\epsilon_{channel}}{\epsilon_{max}}$	$\epsilon_{channel}$
11114001 : $B_d \rightarrow \mu\mu K^*$	1164/22977	0.05			
11144103 : $B_d \rightarrow J/\psi(\mu\mu)K_S$	1316/10000	0.13			
11874001 : $B_d \rightarrow D^{(*)-}\mu\nu$	985/5000	0.20			
11874011 : $B_d \rightarrow D\mu\nu$	947 <sup>d)</sup>				
13112001 : $B_s \rightarrow \mu\mu$	901/1600 <sup>b)</sup>				
13144002 : $B_s \rightarrow J/\psi(\mu\mu)\phi$	1028/4000	0.26			
13774001 : $B_s \rightarrow D_s(KK\pi)\mu\nu$	1219/10000				
42112000 : $Z \rightarrow \mu^+\mu^-$	1122/5000				
11164011 : $B_d \rightarrow D^0 K^{*0}$	1090/4000	0.27			
11102003 : $B_d \rightarrow K^+\pi^-$	1092/2000	0.55			
12165102 : $B^+ \rightarrow D^0(K_S\pi\pi)K^+$	473/5545	0.09			
13104011 : $B_s \rightarrow \phi\phi$	1260/2500 <sup>c)</sup>	0.50			
13264001 : $B_s \rightarrow D_s\pi$	1238/4000	0.31			
13264011 : $B_s \rightarrow D_s K$	1033/3581	0.29			
11463000 : $B_d \rightarrow D^*(h^+h^-)X$	<sup>g)</sup>				
27363000 : $D^{*+} \rightarrow D^0(h^+h^-)\pi^+$	<sup>h)</sup>				
12123001 : $B_u \rightarrow eeK^+$	1115/21251	0.05			
13102201 : $B_s \rightarrow \phi\gamma$	988/5000	0.20			
No off-line selection (yet?)					
$B_d \rightarrow D^*\pi$	<sup>e)</sup>				
$B_d \rightarrow \rho\pi$	<sup>f)</sup>				
$B_s \rightarrow D_s^{(*)}D_s^{(*)}$					



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- All dsts on:
  - dst: /castor/cern.ch/user/d/dijkstra/Selections-DC06/
  - log: /afs/cern.ch/lhcb/group/trigger/vol1/dijkstra/Selections-DC06-logs/
- b) Use diegom/pulic/DVPreselBs2MuMu\_LH.opts and stripped DSTs
- c) Added Phys from official stripping, selection from Styles.
- d) Stripped from /castor/cern.ch/user/r/rlambert/B02DMuX/DC06SelB02DMuX\_D2KKpi\_0.dst  
 $B_u \rightarrow D^{(*)0} \mu \nu$ : No DC06 study for the time being.
- e) Nobody working on this channel.
- f) Will eventually come (O.Deschamps)
- g) /castor/cern.ch/user/s/spradlin/DC06\_DST/DC06-phys-v4-lumi2/11463000-Bd\_DstX\_2body/SelDstar2D0Pi\_D02HH.00.dst
- h) PFN:/castor/cern.ch/user/p/pxing/DST/DST\_promptDstar.dst
- x) mSugra events:
  - /castor/cern.ch/user/n/ngueissa/TriggerSamples/hkk\_1LSPinAcc\_LateinVelo.dst
  - /castor/cern.ch/user/n/ngueissa/TriggerSamples/hkk\_1LSPinAcc\_Lumi.dst
- Hidden Valley:
  - /castor/cern.ch/user/m/marcin/HiddenValleySignal/Higgs120\_mA35\_tA\_10/