

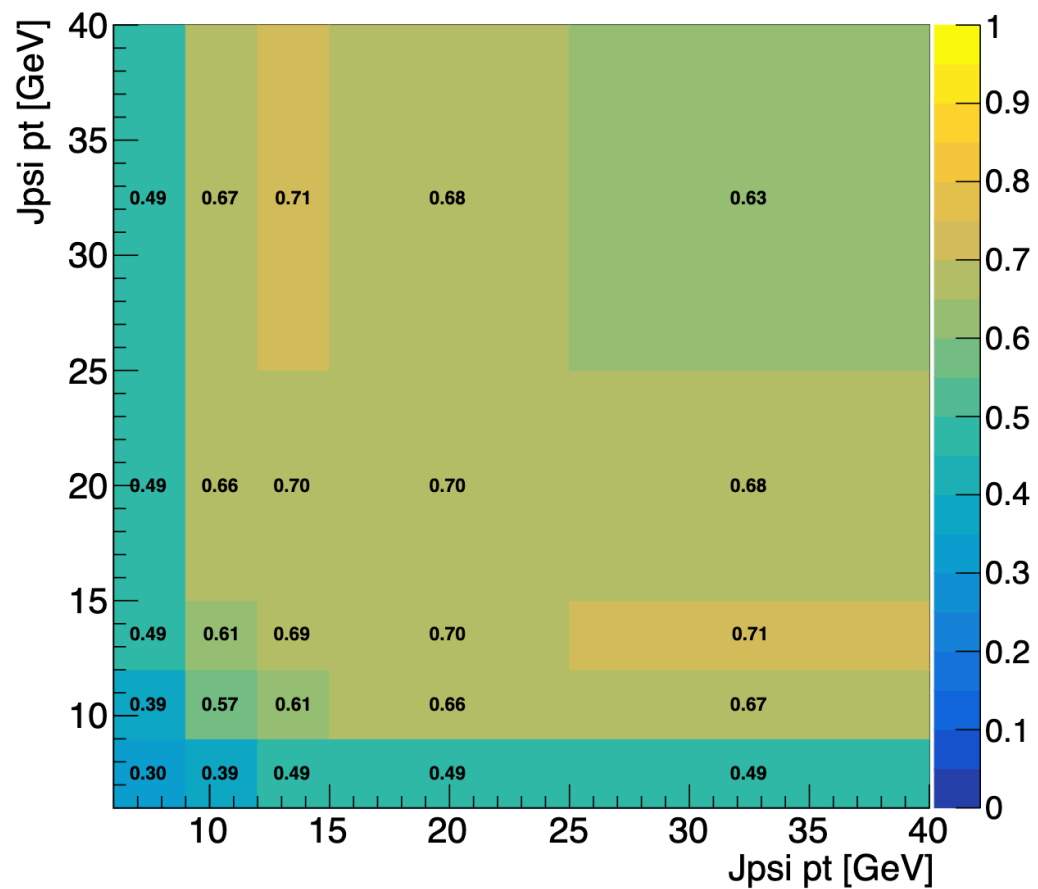


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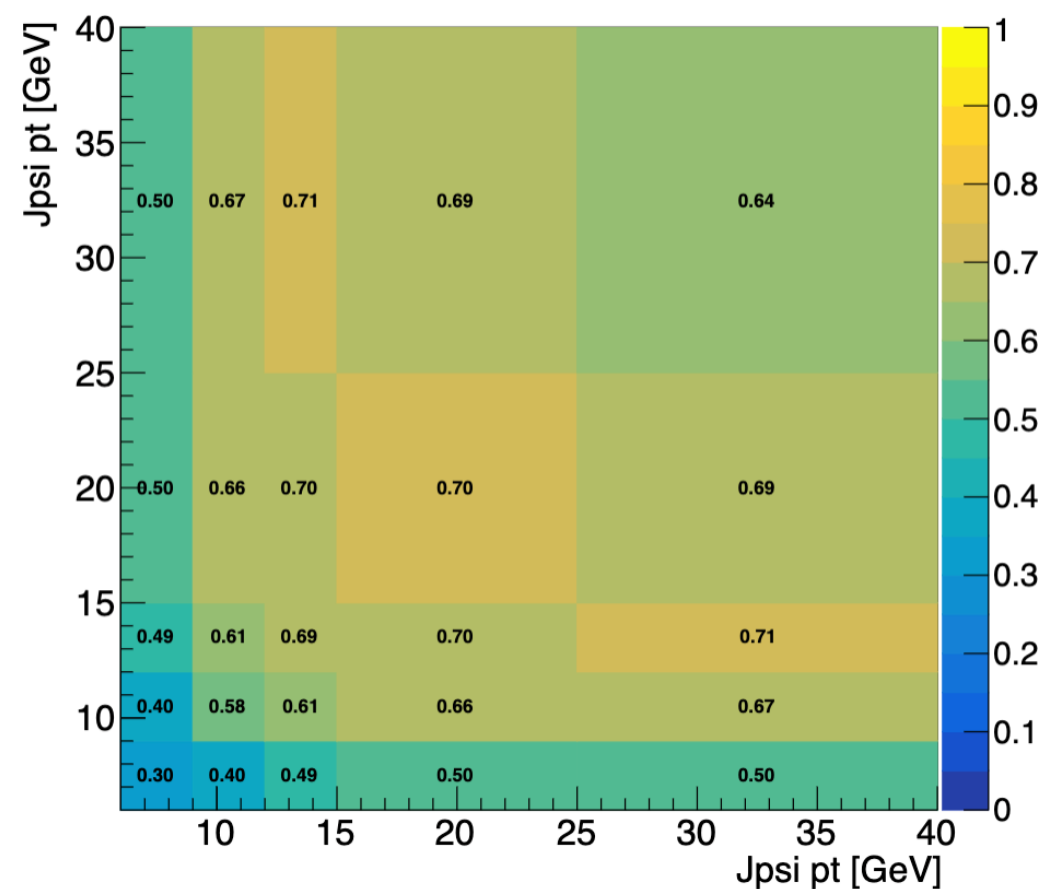
Double Jpsi

pass HLT probability



remove mumu MC vertex

pass HLT probability





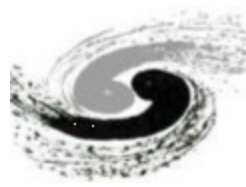
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2017



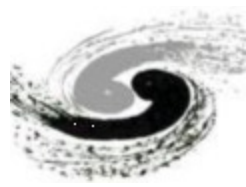
The SPS sample closure test(2017)



Pass the cut	$N^{obs}(SPS)$	N_{SPS}^{corr}	N_{DPS}^{corr}
Total	20924	21126	16743
RECO	19424	20117	16006
$id(\mu)$	18369	19085	15293
$vtx(\mu^+\mu^-)$	16189	16744	13931
HLT		10994	



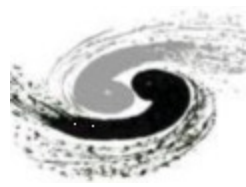
The SPS sample closure test (Rebin the DPS map)



Pass the cut	$N^{obs}(SPS)$	N^{corr}_{SPS}	N^{corr}_{DPS}
Total	20924	21126	17493
RECO	19424	20117	16665
$id(\mu)$	18369	19085	15899
$vtx(\mu^+\mu^-)$	16189	16744	14410
HLT	10994		



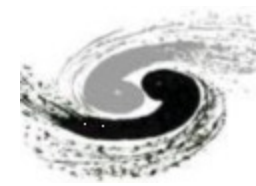
The DPS sample closure test(2017)



	$N^{obs}(DPS)$	N_{SPS}^{corr}	N_{DPS}^{corr}
Total	10612	9973	9117
RECO	9215	9261	8439
$id(\mu)$	8636	8743	7987
$vtx(\mu^+\mu^-)$	7756	7502	7148
HLT		4591	



The DPS sample closure test (Rebin the DPS map)



	$N^{obs}(DPS)$	N_{SPS}^{corr}	N_{DPS}^{corr}
Total	10612	9973	9944
RECO	9215	9261	9219
$id(\mu)$	8636	8743	8722
$vtx(\mu^+\mu^-)$	7756	7502	7808
HLT		4591	



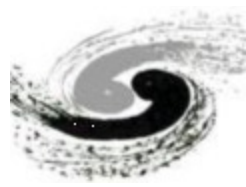
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2016



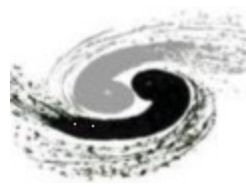
The SPS sample closure test(2016)



Pass the cut	$N^{obs}(SPS)$	N_{SPS}^{corr}	N_{DPS}^{corr}
Total	33884	33266	27892
RECO	31134	31544	26555
$id(\mu)$	29043	29591	24604
$vtx(\mu^+\mu^-)$	26664	26863	22906
HLT	18223		



The DPS sample closure test(2016)



	$N^{obs}(DPS)$	N^{corr}_{SPS}	N^{corr}_{DPS}
Total	15642	14204	13485
RECO	13255	12974	12295
$id(\mu)$	12185	12046	11426
$vtx(\mu^+\mu^-)$	11317	10808	10572
HLT		6601	