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Stripping Results for Reco06-Stripping10 on September 2010 test sample

Comments

The statistics on this page are generated using 100k events from run 79646 ($\mu=2.23$) and the stripping selections that have been used for stripping new data taken during September 2010 (DaVinci v26r1).

- The microbias triggered events have been removed from the sample before evaluating these retentions. This means that we are only looking at the pure physics retention (the microbias are limited to 200Hz, whereas the physics contribution from Hlt will only grow). This ultimately means that your line will have a higher retention since there are fewer events on the denominator.
- A correlation plot is included for each stream. The index on the axis of the correlation plot can be directly matched to the Index label in the table for each stream. Red indicates a 100% correlation.

The complete list of lines that will be run in the Stripping can be found [here](#).

Stream retentions

Stream	Retention
Calibration	1.78 %
Bhadron	1.46 %
Charm	3.92 %
Semileptonic	2.66 %
Dimuon	5.55 %
Dielectron	0.77 %
EW	3.06 %
Radiative	0.15%

As of this stripping release the lines in the DiMuonDiPhoton stream have been moved to the EW stream and the V0 stream has been removed.

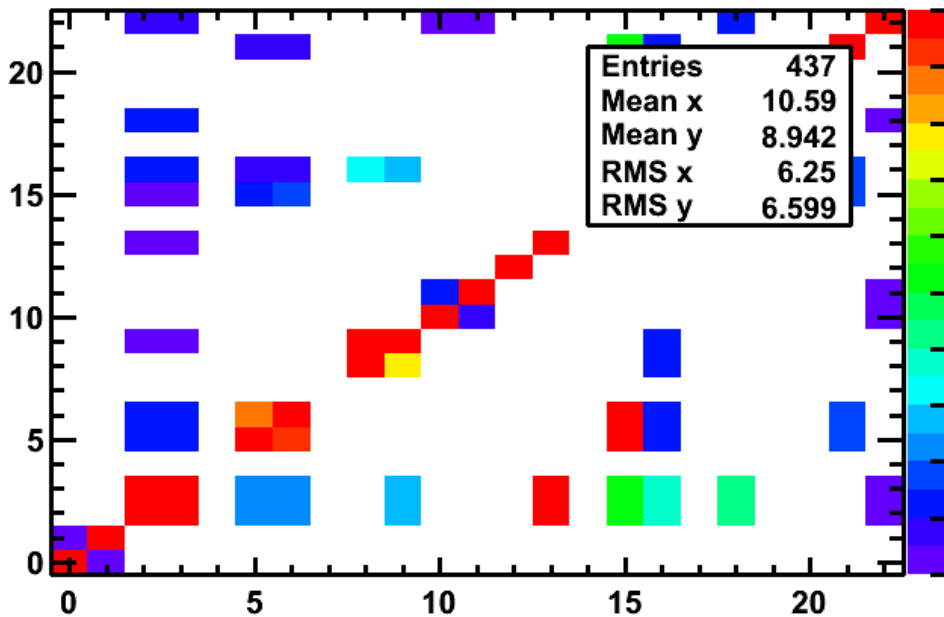
Calibration stream:

Contains lines for RICH PID, ECAL and Muon ID calibration. Stream is maintained by G. Lanfranchi, A. Powell and O. Deschamps.

Line	Index	Events	(%)
StrippingStripDstarNoPIDWithD02RSKPiLineDecision	22	375	0.66
StrippingJpsiNoPIDDecision	11	299	0.53
StrippingJpsiFromBNoPIDDecision	10	231	0.41
StrippingD02KPiPi0_Merged_lineDecision	0	49	0.09
StrippingD02KPiPi0_Resolved_lineDecision	1	29	0.05
StrippingHltErrorBitsDecision	2	22	0.04
StrippingHltErrorBitsNotSlowDecision	3	22	0.04
StrippingInclPhiHighPtLineDecision	5	14	0.02
StrippingInclPhiHighPtPhiLineDecision	6	13	0.02
StrippingK0SLine_3Decision	16	8	0.01
StrippingLam0DDLLine_2Decision	18	7	0.01
StrippingLam0Line_3Decision	21	6	0.01

StrippingInclPhiLowPtPhiLineDecision	9	4	0.01
StrippingInclPhiLowPtLineDecision	8	3	0.01
StrippingK0SDDLLine_1Decision	12	2	0.00
StrippingK0SLine_2Decision	15	2	0.00
StrippingLam0DDLLine_1Decision	17	2	0.00
StrippingLam0Line_2Decision	20	2	0.00
StrippingK0SDDLLine_2Decision	13	1	0.00
StrippingHltSlowEventsDecision	4	0	0.00
StrippingInclPhiLDLineDecision	7	0	0.00
StrippingK0SLine_1Decision	14	0	0.00
StrippingLam0Line_1Decision	19	0	0.00

* Correlation plot for the Calibration stream:



Bhadron stream:

Contains lines for Hadronic b-decays. Including:

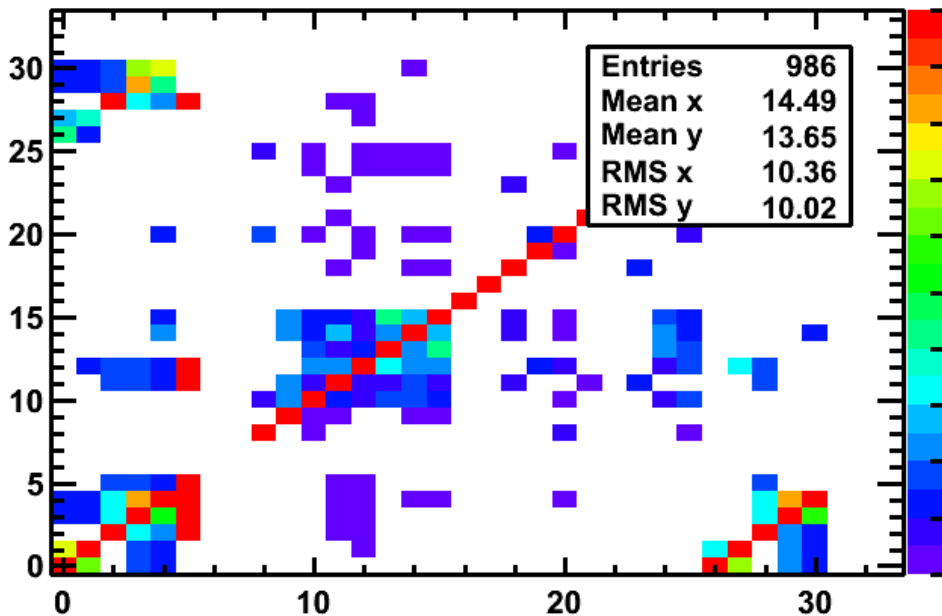
- Lines for Gamma from Trees WG: T. Gershon, A. Poluektov
- Lines for Gamma from Loops WG: V. Vagnoni, U. Kerzel
- Flavour WG: O. Schneider, J. He

Line	Index	Events	(%)
StrippingB2DXWithD2hhLineDecision	12	348	0.62
StrippingB2DXWithD2KPiPi0ResolvedLineDecision	10	121	0.21
StrippingB2DXWithD2hhhLineDecision	13	117	0.21
StrippingB2DXWithLambdaLineDecision	15	112	0.20
StrippingB2DXWithD2hhhhLineDecision	14	109	0.19
StrippingB2DXWithD2KshhLineDecision	11	75	0.13
StrippingB2twobodyLineDecision	20	51	0.09
StrippingBu2hhhLineDecision	25	33	0.06
StrippingBs2PhiPhiLineDecision	21	31	0.05

Calibration stream:

StrippingB2Charged2BodyDecision	8	17	0.03
StrippingB2KSDDhh_lineDecision	18	13	0.02
StrippingBu2D0h_D02KShh_KSLLDecision	24	13	0.02
StrippingAllB2DPiPiPiLineLooseDecision	4	10	0.02
StrippingAllB2D0PiPiPiLineLooseDecision	1	8	0.01
StrippingBu2D0h_D02KShh_KSDDDecision	23	8	0.01
StrippingAllB2D0KPiPiLineLooseDecision	0	7	0.01
StrippingB2KSLLhh_lineDecision	19	7	0.01
StrippingSignalB2DPiPiPiLineLooseDecision	30	7	0.01
StrippingAllB2DDLLineLooseDecision	2	6	0.01
StrippingAllB2DKPiPiLineLooseDecision	3	6	0.01
StrippingBs2PhiPhiWideLineDecision	22	6	0.01
StrippingSignalB2DDLLineLooseDecision	28	6	0.01
StrippingB2DXWithD2KPiPi0MergedLineDecision	9	5	0.01
StrippingB2HHPi0_Merged_lineDecision	16	5	0.01
StrippingSignalB2DKPiPiLineLooseDecision	29	5	0.01
StrippingSignalB2D0KPiPiLineLooseDecision	26	3	0.01
StrippingSignalB2D0PiPiPiLineLooseDecision	27	3	0.01
StrippingAllB2DStarDLineLooseDecision	5	1	0.00
StrippingB2HHPi0_Resolved_lineDecision	17	1	0.00
StrippingAllB2DStarKPiPiLineLooseDecision	6	0	0.00
StrippingAllB2DStarPiPiPiLineLooseDecision	7	0	0.00
StrippingSignalB2DStarDLineLooseDecision	31	0	0.00
StrippingSignalB2DStarKPiPiLineLooseDecision	32	0	0.00
StrippingSignalB2DStarPiPiPiLineLooseDecision	33	0	0.00

* Correlation plot for the Bhadron stream:



Charm stream:

Contains lines for Hadronic charm decays including lines from:

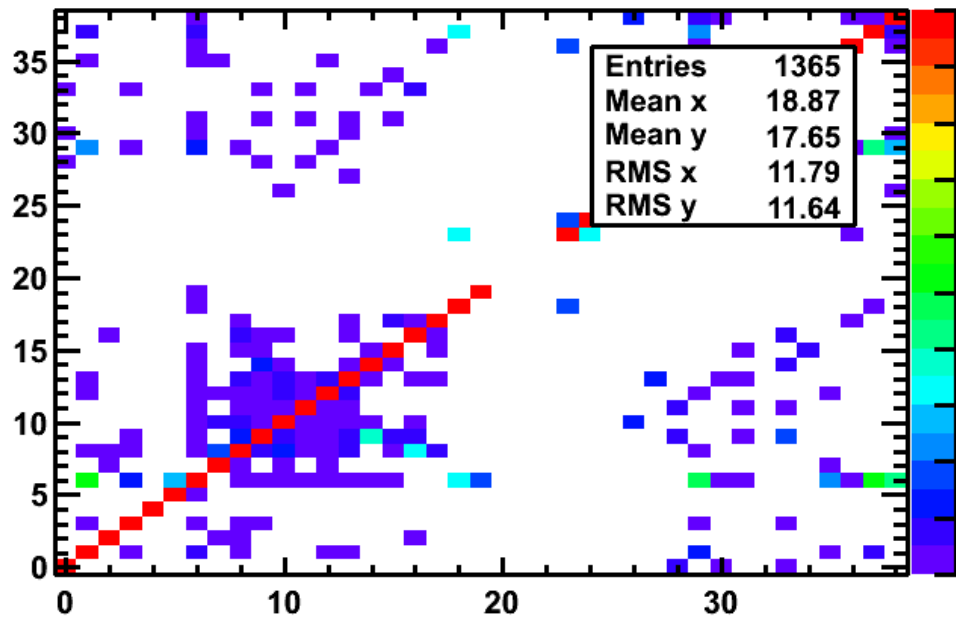
Bhadron stream:

StrippingStatisticsSept2010Reco06Stripping10 < LHCb < TWiki

- Charm CP WG: P. Spradlin, M. Gersabeck

Line	Index	Events	(%)
StrippingD02hhPIDLineDecision	6	579	1.02
StrippingD2KPPDecision	9	216	0.38
StrippingD2KS0h_KS02PiPi_stripping_lineDecision	11	212	0.38
StrippingDstarForPromptCharmDecision	29	172	0.30
StrippingD2PPPDecision	12	153	0.27
StrippingCcbar2PpbarDecision	0	139	0.25
StrippingD2KKPDecision	8	121	0.21
StrippingD2hhh_incDecision	13	108	0.19
StrippingD02HHForPromptCharmDecision	1	96	0.17
StrippingStripDstarPromptWithD02RSKPiLineDecision	37	90	0.16
StrippingD02KPiforBXXLineDecision	3	83	0.15
StrippingD2KPPosDecision	10	78	0.14
StrippingDsforBSemiLineDecision	17	65	0.12
StrippingDForPromptCharmDecision	14	64	0.11
StrippingDstar_D2KPiPi0RS_LineDecision	31	60	0.11
StrippingDpforBSemiLineDecision	15	59	0.10
StrippingDstarVeryLooseWithD02HHLLineDecision	30	40	0.07
StrippingDsForPromptCharmDecision	16	39	0.07
StrippingStripDstarPromptWithD02WSKPiLineDecision	38	34	0.06
StrippingLambdaCForPromptCharmDecision	33	32	0.06
StrippingStripDstarPromptWithD02PiPiLineDecision	36	27	0.05
StrippingStripDstarPromptWithD02KKLineDecision	35	23	0.04
StrippingD02K3PiforBXXLineDecision	2	21	0.04
StrippingD2KKKDecision	7	21	0.04
StrippingDstarD2KSPiPi_KSDDDecision	27	20	0.04
StrippingLcforBSemiLineDecision	34	20	0.04
StrippingDstarD2KSPiPi_KSLLDecision	28	14	0.02
StrippingDstarD2KSKK_KSLLDecision	26	7	0.01
StrippingDst2PiD02KpiBoxDecision	19	6	0.01
StrippingDst2PiD02pimuBoxDecision	23	6	0.01
StrippingDstarD2KSKK_KSDDDecision	25	5	0.01
StrippingD02hhNoPIDLineDecision	5	4	0.01
StrippingDst2PiD02KmuBoxDecision	18	3	0.01
StrippingDst2PiD02pipiBoxDecision	24	3	0.01
StrippingD02hhControllLineDecision	4	2	0.00
StrippingDst2PiD02eeBoxDecision	20	0	0.00
StrippingDst2PiD02mueBoxDecision	21	0	0.00
StrippingDst2PiD02mumuBoxDecision	22	0	0.00
StrippingDstar_D2KPiPi0WS_LineDecision	32	0	0.00

- Correlation plot for the Charm stream:

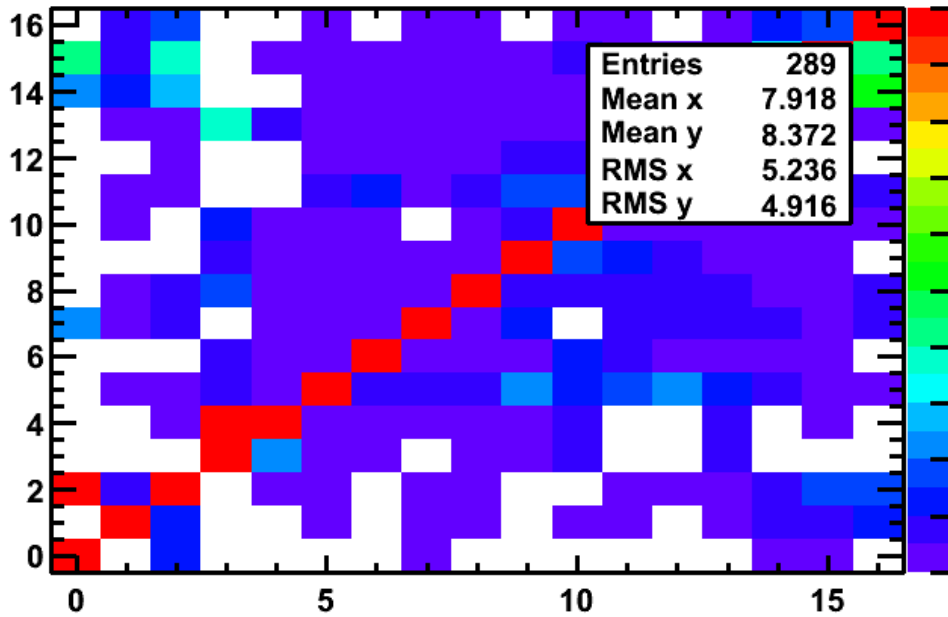


Semileptonic stream:

Contains lines from the semileptonic WG: R. Lambert, M. Artuso

Line	Index	Events	(%)
StrippingBd2PiMuNuLineDecision	5	408	0.72
StrippingBs2KMuNuLineDecision	7	226	0.40
StrippingBs2KMuNuSSLLineDecision	8	180	0.32
StrippingBu2RhoMuNuLineDecision	11	154	0.27
Strippingb2DpMuXLineDecision	14	140	0.25
Strippingb2D0MuXLineDecision	13	135	0.24
StrippingBd2PiMuNuSSLLineDecision	6	105	0.19
Strippingb2DsMuXLineDecision	15	97	0.17
StrippingBs2KstarMuNuLineDecision	9	95	0.17
StrippingB0q2DplusMuXPreselDecision	1	94	0.17
StrippingBd2DstarMuNuLooseLineDecision	4	85	0.15
StrippingBu2RhoMuNuWSLineDecision	12	67	0.12
StrippingB0q2DplusMuXTunedDecision	2	44	0.08
StrippingBs2KstarMuNuSSLLineDecision	10	38	0.07
Strippingb2LcMuXLineDecision	16	38	0.07
StrippingBd2DstarMuNuLineDecision	3	19	0.03
StrippingB0q2DplusMuXMC09Decision	0	5	0.01

* Correlation plot for the Semileptonic stream:



Dimuon stream:

Contains lines with dimuon final states, including lines from:

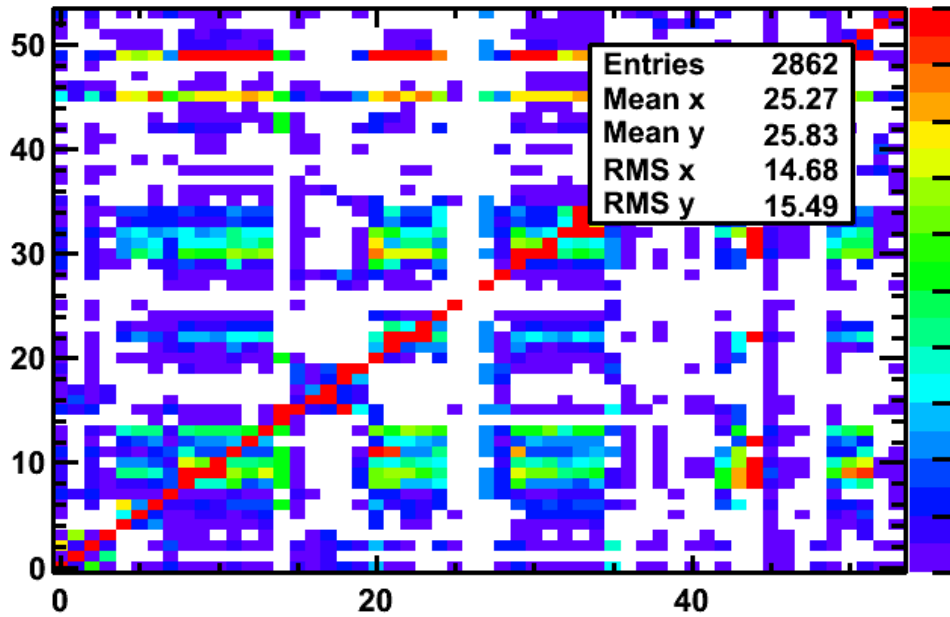
- Rare decay WG: J. Albrecht, U. Egede, T. Blake, J. Dickens
- Betas WG: O. Leroy, G. Cowan
- Charm rare decay WG: W. Bonivento
- Flavour WG: O. Schneider, P. Robbe, J. He

Line	Index	Events	(%)
StrippingDiMuonIncLineDecision	45	1840	3.26
StrippingJpsi2MuMuForBetasLineDecision	49	674	1.19
StrippingBd2JpsiKsPrescaledLineDecision	9	380	0.67
StrippingBu2JpsiKPrescaledLineDecision	30	323	0.57
StrippingBd2JpsiKstarUnbiasedLineDecision	13	262	0.46
StrippingBd2JpsiKsUnbiasedLineDecision	10	238	0.42
StrippingBu2KJpsiPiPiLooseLineDecision	32	217	0.38
StrippingBu2JpsiKUnbiasedLineDecision	31	206	0.36
StrippingDiMuonSameSignLineDecision	46	166	0.29
StrippingBs2JpsiPhiPrescaledLineDecision	22	144	0.25
StrippingThreeMuonsDecision	53	144	0.25
StrippingD02HHForD02MuMuDecision	36	137	0.24
StrippingBd2JpsiKsDetachedLineDecision	8	134	0.24
StrippingBd2JpsiKstarPrescaledLineDecision	12	132	0.23
StrippingD2PiMuMuOSLineDecision	40	110	0.19
StrippingBc2JpsiMuXDecision	6	107	0.19
StrippingBd2KstarMuMu_PrescaledDecision	15	94	0.17
StrippingBd2JpsiKstarDetachedLineDecision	11	92	0.16
StrippingBu2KX3872LineDecision	34	87	0.15
StrippingBd2KstarMuMu_SameSignDecision	16	85	0.15
StrippingTau2ThreeMuDecision	52	75	0.13

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StrippingBc2JpsiHDetachedDecision	5	74	0.13
StrippingD2KMuMuOSLineDecision	38	74	0.13
StrippingB2PiMuMuOSLineDecision	2	69	0.12
StrippingD2PiMuMuSSLLineDecision	41	67	0.12
StrippingBu2KPsi2SLineDecision	33	66	0.12
StrippingD02MuMuDecision	37	63	0.11
StrippingDstarWithD02HHForD02MuMuDecision	47	56	0.10
StrippingBd2KstarMuMu_WideKstarTriggeredDecision	19	52	0.09
StrippingD2KMuMuSSLLineDecision	39	52	0.09
StrippingB2KMuMuOSLineDecision	0	50	0.09
StrippingBs2MuMuNoMuIDLineDecision	25	50	0.09
StrippingBs2JpsiPhiUnbiasedLineDecision	23	47	0.08
StrippingBu2JpsiKDetachedLineDecision	29	42	0.07
StrippingBc2ThreeMuDecision	7	40	0.07
StrippingDetachedJPsiLineDecision	42	37	0.07
StrippingBc2JpsiHDecision	4	33	0.06
StrippingB2PiMuMuSSLLineDecision	3	32	0.06
StrippingBs2f0MuMuLineDecision	28	27	0.05
StrippingLambdab2JpsiLambdaDDLLineDecision	50	27	0.05
StrippingBs2JpsiPhiDetachedLineDecision	21	24	0.04
StrippingB2KMuMuSSLLineDecision	1	20	0.04
StrippingBd2KstarMuMu_SameSignTriggeredDecision	17	19	0.03
StrippingLambdab2JpsiLambdaLLineDecision	51	17	0.03
StrippingBd2KstarMuMu_TriggeredDecision	18	15	0.03
StrippingBu2mmK_mmDecision	35	13	0.02
StrippingDstarWithD02MuMuDecision	48	12	0.02
StrippingBs2Jpsif0LineDecision	24	9	0.02
StrippingBs2JpsiKstLineDecision	20	8	0.01
StrippingDetachedJPsiLooseLineDecision	43	6	0.01
StrippingBs2PhiMuMuLineDecision	27	5	0.01
StrippingBd2KstarMuMuLTDecision	14	2	0.00
StrippingDetachedJPsi_noDetachedLineDecision	44	1	0.00
StrippingBs2MuMuNoMuIDLoseLineDecision	26	0	0.00

* Correlation plot for the Dimuon stream:



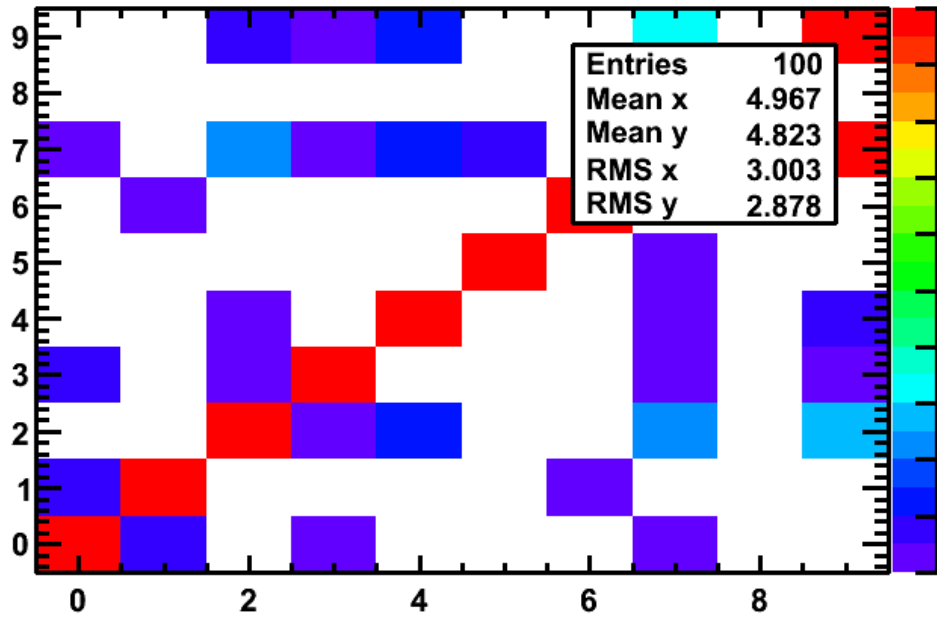
Dielectron stream:

Contains lines with final states involving dielectrons, including lines from:

- Flavour WG: O. Schneider, J. He
- Rare decay WG: U. Egede, P. Koppenburg

Line	Index	Events	(%)
StrippingBiasedIncDiElectronDecision	2	136	0.24
StrippingIncDiElectronDecision	7	134	0.24
StrippingBiasedIncDiElectronLowMassDecision	3	57	0.10
StrippingJpsi2eeDecision	9	44	0.08
StrippingBu2eeK_eeDecision	6	38	0.07
StrippingBd2eeKstarLineDecision	1	33	0.06
StrippingBd2JpsieeKstarLineDecision	0	30	0.05
StrippingBs2JpsieePhiDecision	4	28	0.05
StrippingBs2JpsieePhiLooseDecision	5	13	0.02
StrippingIncDiElectronLowMassDecision	8	10	0.02

- Correlation plot for the Dielectron stream:



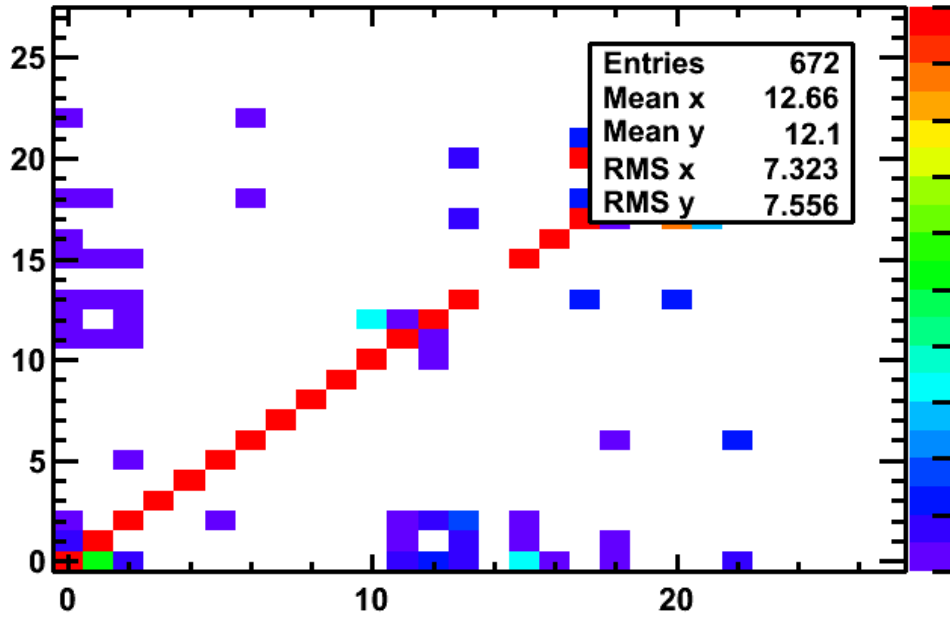
Electroweak stream

Contains lines for Electroweak analysis: T. Shears, J. Keaveney

Line	Index	Events	(%)
StrippingDY2MuMu1Decision	0	980	1.73
StrippingMuMuSS1Decision	11	210	0.37
StrippingDY2MuMu2Decision	2	159	0.28
StrippingDY2MuMu1_psDecision	1	144	0.25
StrippingDY2ee2Decision	6	69	0.12
StrippingW2MuNoPIDs_psDecision	18	56	0.10
StrippingSingleDisplVtxDecision	16	46	0.08
StrippingMuMuSS2Decision	12	40	0.07
StrippingDY2ee1Decision	5	38	0.07
StrippingPP2PPMuMuDecision	15	22	0.04
StrippingMuMuSS3Decision	13	17	0.03
StrippingW2eDecision	22	16	0.03
StrippingDY2ee3Decision	7	15	0.03
StrippingW2e_psDecision	23	10	0.02
StrippingDoubleDisplVtxDecision	9	9	0.02
StrippingW2MulooseDecision	20	9	0.02
StrippingDY2MuMu3Decision	3	8	0.01
StrippingW2MuDecision	17	8	0.01
StrippingW2Muloose_psDecision	21	4	0.01
StrippingDY2ee4Decision	8	3	0.01
StrippingHighPtJetsSelDecision	10	3	0.01
StrippingW2Mu_psDecision	19	3	0.01
StrippingDY2MuMu4Decision	4	1	0.00
StrippingZ02MuMuNoPIDsDecision	25	1	0.00
StrippingMuMuSS4Decision	14	0	0.00

StrippingZ02MuMuDecision	24	0	0.00
StrippingZ02MuMulooseDecision	26	0	0.00
StrippingZ02eeDecision	27	0	0.00

* Correlation plot for the EW stream:

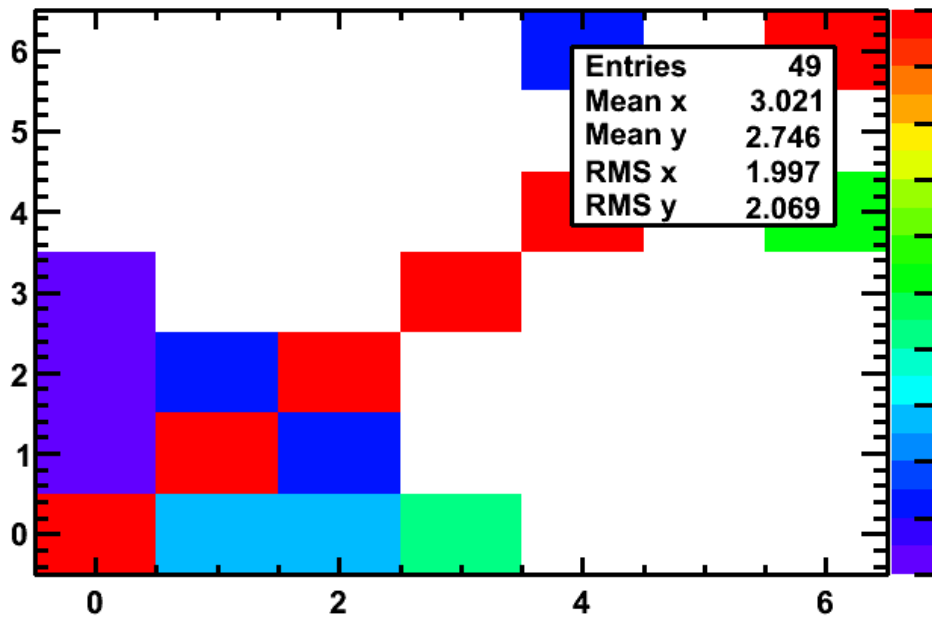


Radiative stream:

Contains lines for $b \rightarrow s\gamma$ analysis for the RD WG. Stream responsables are U. Egede and F. Soomro.

Line	Index	Events	(%)
StrippingBd2KstGammaDecision	0	54	0.10
StrippingBd2KstGammaLooseDiraDecision	1	8	0.01
StrippingBd2KstGammaWideBMassDecision	2	8	0.01
StrippingBs2PhiGammaDecision	4	7	0.01
StrippingBd2KstGammaWideKstMassBdDecision	3	5	0.01
StrippingBs2PhiGammaLooseDiraDecision	5	5	0.01
StrippingBs2PhiGammaWideBMassDecision	6	2	0.00

* Correlation plot for the Radiative stream:



-- GreigCowan - 29-Sep-2010

This topic: LHCb > StrippingStatisticsSept2010Reco06Stripping10

Topic revision: r2 - 2010-09-29 - RobLambert



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