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Stripping Statistics For September 2010 Stripping

Comments

The statistics on this page are generated using 100k events from run 77222 and the stripping selections that will be used for stripping new data taken during September 2010.

- A small number of lines were omitted in the above tests but will appear in the official stripping.
- 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	1.95 %
Bhadron	0.86 %
Charm	1.23 %
Semileptonic	0.84 %
Dimuon	1.67 %
Dielectron	0.55 %
EW	1.12 %
Radiative	0.22%

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.

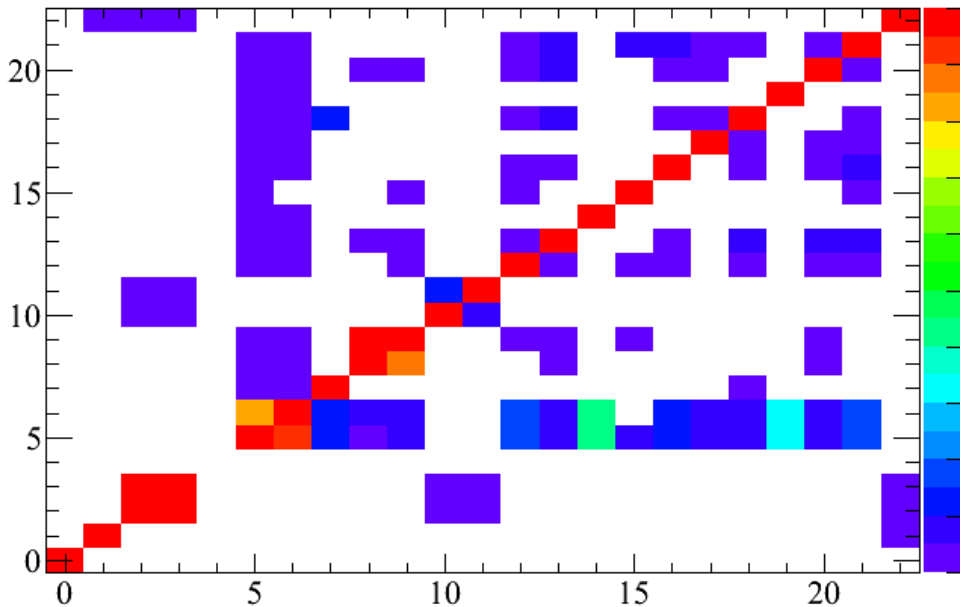
Calibration stream:

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

Line	Index	Events	(%)
StrippingInclPhiHighPtLineDecision	5	361	0.36
StrippingJpsiNoPIDDecision	11	330	0.33
StrippingInclPhiHighPtPhiLineDecision	6	317	0.32
StrippingHltErrorBitsDecision	2	287	0.29
StrippingHltErrorBitsNotSlowDecision	3	287	0.29
StrippingJpsiFromBNoPIDDecision	10	268	0.27
StrippingStripDstarNoPIDWithD02RSKPiLineDecision	22	217	0.22
StrippingInclPhiLowPtPhiLineDecision	9	117	0.12
StrippingInclPhiLowPtLineDecision	8	101	0.10
StrippingD02KPi0_Resolved_lineDecision	1	76	0.08
StrippingK0SDDLLine_2Decision	13	59	0.06
StrippingLam0DDLLine_2Decision	18	55	0.06
StrippingLam0Line_3Decision	21	52	0.05
StrippingK0SLine_3Decision	16	50	0.05
StrippingK0SDDLLine_1Decision	12	41	0.04
StrippingLam0DDLLine_1Decision	17	39	0.04
StrippingLam0Line_2Decision	20	36	0.04

StrippingK0SLine_2Decision	15	25	0.03
StrippingD02KPiPi0_Merged_lineDecision	0	22	0.02
StrippingLam0Line_1Decision	19	10	0.01
StrippingInclPhiLDLineDecision	7	9	0.01
StrippingK0SLine_1Decision	14	5	0.01
StrippingHltSlowEventsDecision	4	0	0.00

* Correlation plot for the Calibration stream:



Bhadron stream:

Contains lines for Hadronic b-decays. Including:

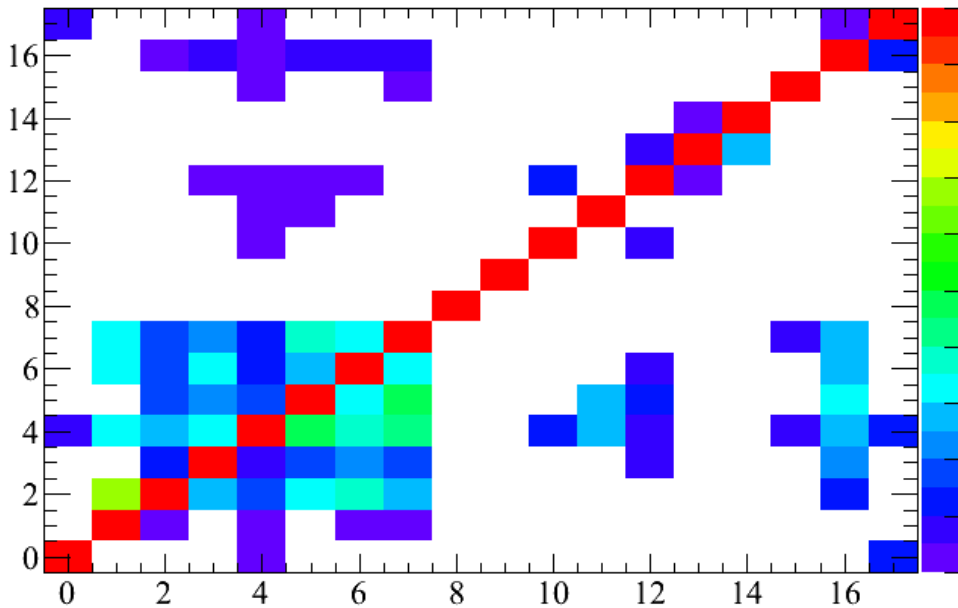
- Lines for Gamma from Trees WG: T. Gershon, A. Poluektov
- Lines for Gamma from Loops WG: V. Vagnoni, U. Kerzel
- Flavour WG: O. Schneider, J. He

Line	Index	Events	(%)
StrippingB2DXWithD2hhLineDecision	4	381	0.38
StrippingB2DXWithD2KPiPi0ResolvedLineDecision	2	228	0.23
StrippingB2DXWithD2hhhLineDecision	5	149	0.15
StrippingB2DXWithLambdaLineDecision	7	124	0.12
StrippingB2DXWithD2hhhhLineDecision	6	121	0.12
StrippingB2DXWithD2KshhLineDecision	3	100	0.10
StrippingBs2PhiPhiLineDecision	13	47	0.05
StrippingBu2D0h_D02KShh_KSLLDecision	16	35	0.04
StrippingB2Charged2BodyDecision	0	18	0.02
StrippingB2twobodyLineDecision	12	18	0.02
StrippingBu2D0h_D02KShh_KSDDDecision	15	13	0.01
StrippingBs2PhiPhiWideLineDecision	14	8	0.01
StrippingBu2hhhLineDecision	17	8	0.01
StrippingB2KSDDhh_lineDecision	10	7	0.01
StrippingB2HHPi0_Merged_lineDecision	8	4	0.00

Calibration stream:

StrippingB2HHPi0_Resolved_lineDecision	9	4	0.00
StrippingB2KSLLhh_lineDecision	11	4	0.00
StrippingB2DXWithD2KPiPi0MergedLineDecision	1	3	0.00

* Correlation plot for the Bhadron stream:



Charm stream:

Contains lines for Hadronic charm decays including lines from:

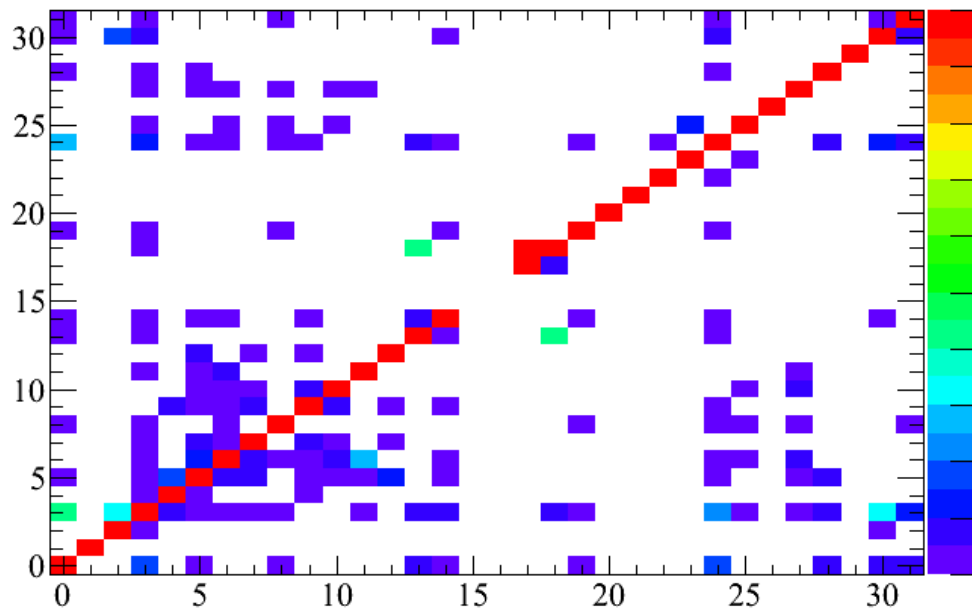
- Charm CP WG: P. Spradlin, M. Gersabeck

Line	Index	Events	(%)
StrippingD2KS0h_KS02PiPi_stripping_lineDecision	8	261	0.26
StrippingD02hhPIDLineDecision	3	192	0.19
StrippingDstarForPromptCharmDecision	24	109	0.11
StrippingDstar_D2KPiPi0RS_LineDecision	25	105	0.10
StrippingD2KPPDecision	6	76	0.08
StrippingD02HHForPromptCharmDecision	0	67	0.07
StrippingD2PPPDecision	9	59	0.06
StrippingDst2PiD02pipiBoxDecision	19	56	0.06
StrippingD2KKPDecision	5	55	0.06
StrippingD2hhh_incDecision	10	55	0.06
StrippingStripDstarPromptWithD02RSKPiLineDecision	30	44	0.04
StrippingDst2PiD02KpiBoxDecision	14	41	0.04
StrippingD2KPPosDecision	7	35	0.04
StrippingLambdaCForPromptCharmDecision	27	31	0.03
StrippingStripDstarPromptWithD02PiPiLineDecision	29	29	0.03
StrippingDstarD2KSPiPi_KSDDDecision	22	27	0.03
StrippingDForPromptCharmDecision	11	26	0.03
StrippingDsForPromptCharmDecision	12	23	0.02
StrippingStripDstarPromptWithD02WSKPiLineDecision	31	22	0.02
StrippingDst2PiD02KmuBoxDecision	13	20	0.02

Bhadron stream:

StrippingDst2PiD02pimuBoxDecision	18	19	0.02
StrippingStripDstarPromptWithD02KKLineDecision	28	12	0.01
StrippingD2KKKDecision	4	11	0.01
StrippingDstarD2KSPiPi_KSLLDecision	23	10	0.01
StrippingDstarD2KSKK_KSDDDecision	20	7	0.01
StrippingD02hhNoPIDLineDecision	2	6	0.01
StrippingDstarD2KSKK_KSLLDecision	21	4	0.00
StrippingD02hhControlLineDecision	1	1	0.00
StrippingDst2PiD02mumuBoxDecision	17	1	0.00
StrippingDstar_D2KPiPi0WS_LineDecision	26	1	0.00
StrippingDst2PiD02eeBoxDecision	15	0	0.00
StrippingDst2PiD02mueBoxDecision	16	0	0.00

- Correlation plot for the Charm stream:



Semileptonic stream:

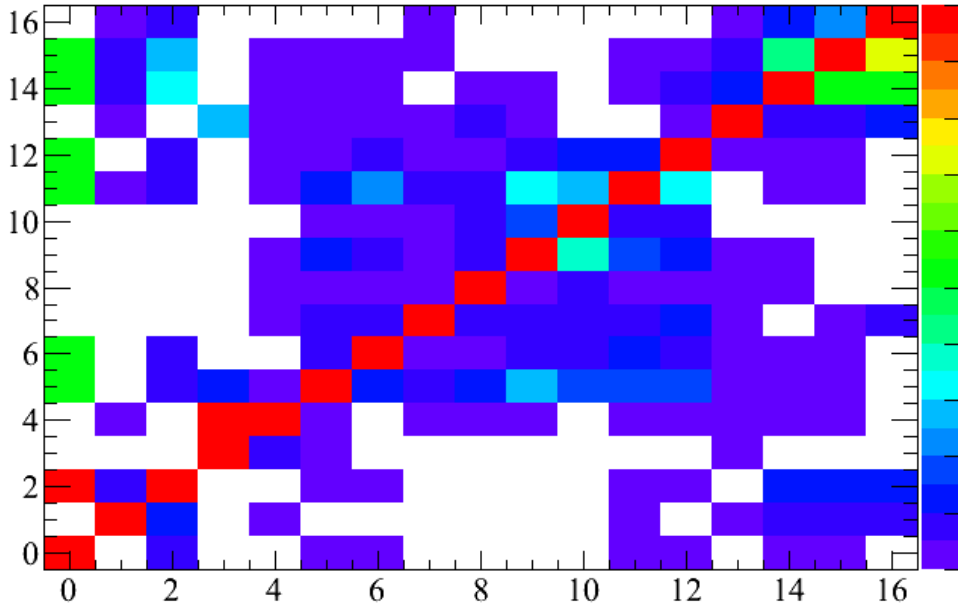
Contains lines from the semileptonic WG: R. Lambert, K. Vervink

Line	Index	Events	(%)
StrippingBd2PiMuNuLineDecision	5	174	0.17
StrippingBs2KMuNuLineDecision	7	132	0.13
StrippingBu2RhoMuNuLineDecision	11	127	0.13
Strippingb2DpMuXLineDecision	14	79	0.08
StrippingBs2KstarMuNuLineDecision	9	74	0.07
StrippingBd2DstarMuNuLooseLineDecision	4	73	0.07
StrippingB0q2DplusMuXPreselDecision	1	72	0.07
Strippingb2D0MuXLineDecision	13	67	0.07
Strippingb2DsMuXLineDecision	15	66	0.07
StrippingBd2PiMuNuSSLLineDecision	6	65	0.07
StrippingBs2KMuNuSSLLineDecision	8	58	0.06
StrippingBu2RhoMuNuWSLineDecision	12	45	0.04

Charm stream:

StrippingBs2KstarMuNuSSLLineDecision	10	34	0.03
StrippingB0q2DplusMuXTunedDecision	2	28	0.03
Strippingb2LcMuXLineDecision	16	20	0.02
StrippingBd2DstarMuNuLineDecision	3	7	0.01
StrippingB0q2DplusMuXMC09Decision	0	2	0.00

* 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

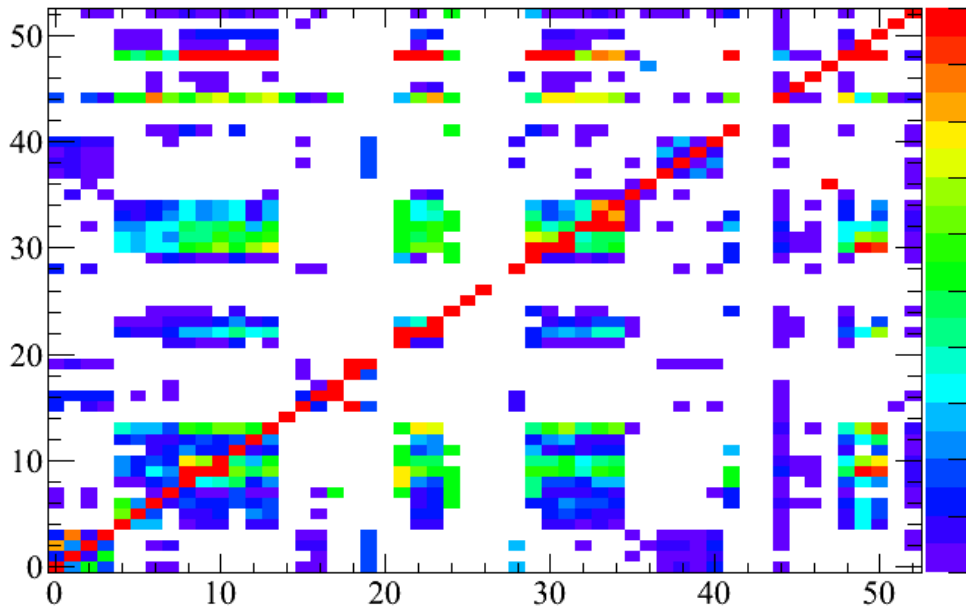
Line	Index	Events	(%)
StrippingDiMuonIncLineDecision	44	785	0.79
StrippingJpsi2MuMuForBetasLineDecision	48	262	0.26
StrippingD02HHForD02MuMuDecision	35	153	0.15
StrippingBu2JpsiKPrescaledLineDecision	30	129	0.13
StrippingBu2KJpsiPiPiLooseLineDecision	32	123	0.12
StrippingBd2JpsiKsPrescaledLineDecision	9	119	0.12
StrippingBd2JpsiKstarUnbiasedLineDecision	13	98	0.10
StrippingBu2JpsiKUnbiasedLineDecision	31	88	0.09
StrippingBd2JpsiKsUnbiasedLineDecision	10	79	0.08
StrippingBd2KstarMuMu_PrescaledDecision	15	72	0.07
StrippingDiMuonSameSignLineDecision	45	68	0.07
StrippingBd2KstarMuMu_SameSignDecision	16	67	0.07
StrippingBc2JpsiMuXDecision	6	56	0.06
StrippingBc2JpsiHDetachedDecision	5	54	0.05
StrippingThreeMuonsDecision	52	51	0.05

Semileptonic stream:

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StrippingBs2JpsiPhiPrescaledLineDecision	22	49	0.05
StrippingDstarWithD02HHForD02MuMuDecision	46	46	0.05
StrippingBu2KPsi2SLineDecision	33	45	0.04
StrippingBu2KX3872LineDecision	34	45	0.04
StrippingD2PiMuMuOSLineDecision	39	44	0.04
StrippingB2PiMuMuOSLineDecision	2	43	0.04
StrippingBd2JpsiKstarPrescaledLineDecision	12	42	0.04
StrippingBd2JpsiKsDetachedLineDecision	8	40	0.04
StrippingD2PiMuMuSSLLineDecision	40	38	0.04
StrippingD2KMuMuOSLineDecision	37	36	0.04
StrippingD2KMuMuSSLLineDecision	38	31	0.03
StrippingB2KMuMuOSLineDecision	0	28	0.03
StrippingD02MuMuDecision	36	28	0.03
StrippingBs2MuMuNoMuIDLLineDecision	25	27	0.03
StrippingBc2JpsiHDecision	4	25	0.03
StrippingB2PiMuMuSSLLineDecision	3	24	0.02
StrippingTau2ThreeMuDecision	51	24	0.02
StrippingBc2ThreeMuDecision	7	23	0.02
StrippingBd2JpsiKstarDetachedLineDecision	11	19	0.02
StrippingBs2JpsiPhiUnbiasedLineDecision	23	19	0.02
StrippingB2KMuMuSSLLineDecision	1	15	0.01
StrippingLambdab2JpsiLambdaLLineDecision	50	13	0.01
StrippingBs2f0MuMuLineDecision	28	12	0.01
StrippingDetachedJPsiLineDecision	41	8	0.01
StrippingBu2JpsiKDetachedLineDecision	29	7	0.01
StrippingBd2KstarMuMu_WideKstarTriggeredDecision	19	6	0.01
StrippingDstarWithD02MuMuDecision	47	6	0.01
StrippingBs2JpsiPhiDetachedLineDecision	21	4	0.00
StrippingLambdab2JpsiLambdaDDLLineDecision	49	3	0.00
StrippingBd2KstarMuMuLTDecision	14	2	0.00
StrippingBd2KstarMuMu_SameSignTriggeredDecision	17	2	0.00
StrippingBs2Jpsif0LineDecision	24	2	0.00
StrippingBs2MuMuNoMuIDLlooseLineDecision	26	2	0.00
StrippingBd2KstarMuMu_TriggeredDecision	18	1	0.00
StrippingBs2JpsiKstLineDecision	20	0	0.00
StrippingBs2PhiMuMuLineDecision	27	0	0.00
StrippingDetachedJPsiLooseLineDecision	42	0	0.00
StrippingDetachedJPsi_noDetachedLineDecision	43	0	0.00

* Correlation plot for the Dimuon stream:



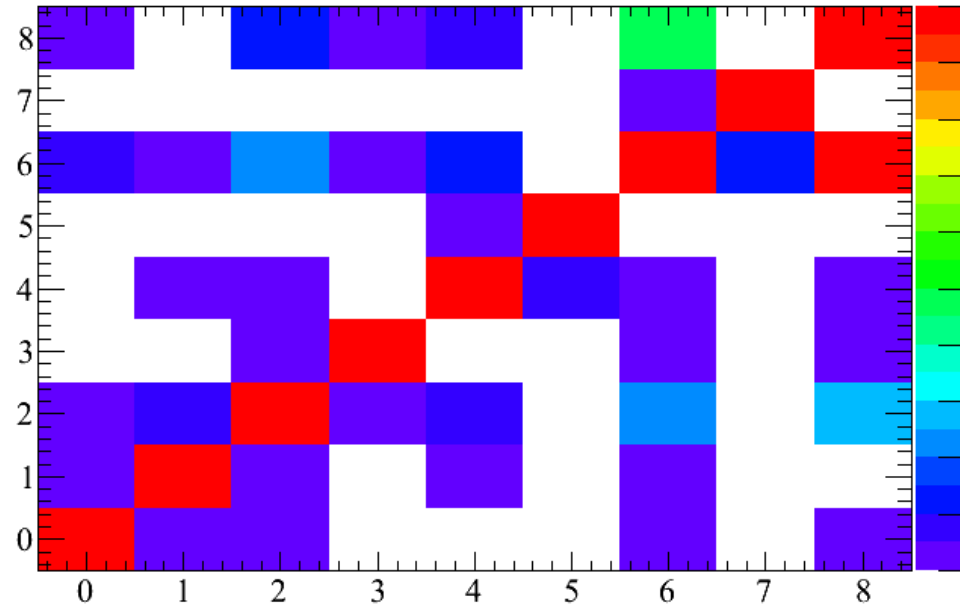
Dielectron stream:

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	(%)
StrippingIncDielectronDecision	6	196	0.20
StrippingBiasedIncDielectronDecision	2	179	0.18
StrippingJpsi2eeDecision	8	90	0.09
StrippingBiasedIncDielectronLowMassDecision	3	67	0.07
StrippingBd2eeKstarLineDecision	1	55	0.06
StrippingBd2JpsieeKstarLineDecision	0	51	0.05
StrippingBs2JpsieePhiDecision	4	41	0.04
StrippingBs2JpsieePhiLooseDecision	5	18	0.02
StrippingIncDielectronLowMassDecision	7	9	0.01

- Correlation plot for the Dielectron stream:



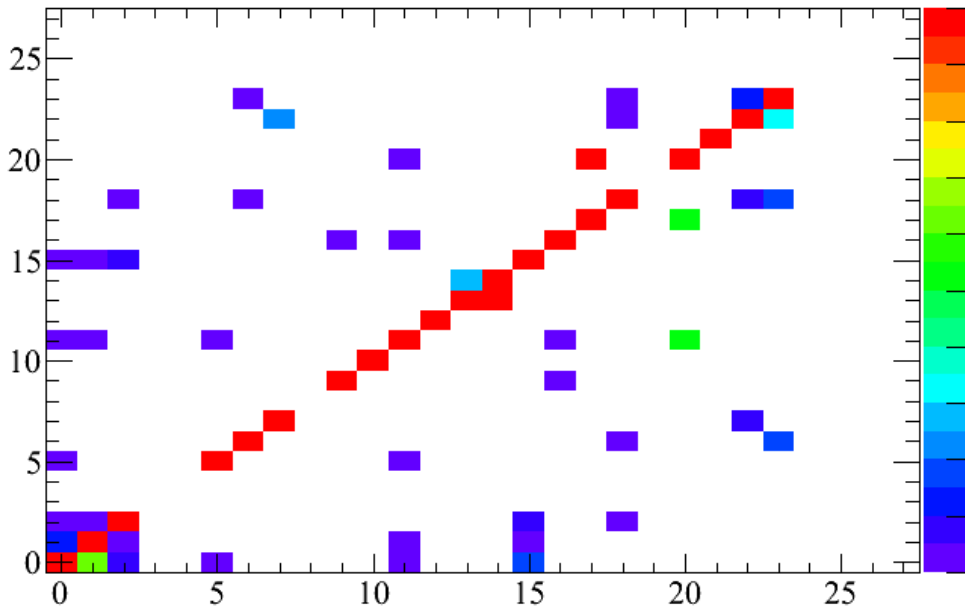
Electroweak stream

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

Line	Index	Events	(%)
StrippingDY2MuMu1Decision	0	444	0.44
StrippingSingleDisplVtxDecision	16	176	0.18
StrippingMuMuSS1Decision	11	139	0.14
StrippingDY2MuMu1_psDecision	1	75	0.07
StrippingDY2ee1Decision	5	73	0.07
StrippingDoubleDisplVtxDecision	9	66	0.07
StrippingDY2MuMu2Decision	2	46	0.05
StrippingPP2PPMuMuDecision	15	46	0.05
StrippingDY2ee2Decision	6	42	0.04
StrippingW2MuNoPIDs_psDecision	18	34	0.03
StrippingHighPtJetsSelDecision	10	18	0.02
StrippingW2eDecision	22	15	0.01
StrippingMuMuSS2Decision	12	8	0.01
StrippingW2e_psDecision	23	6	0.01
StrippingDY2ee3Decision	7	5	0.01
StrippingMuMuSS3Decision	13	4	0.00
StrippingW2MulooseDecision	20	2	0.00
StrippingMuMuSS4Decision	14	1	0.00
StrippingW2MuDecision	17	1	0.00
StrippingW2Muloose_psDecision	21	1	0.00
StrippingDY2MuMu3Decision	3	0	0.00
StrippingDY2MuMu4Decision	4	0	0.00
StrippingDY2ee4Decision	8	0	0.00
StrippingW2Mu_psDecision	19	0	0.00
StrippingZ02MuMuDecision	24	0	0.00

StrippingZ02MuMuNoPIDsDecision	25	0	0.00
StrippingZ02MuMulooseDecision	26	0	0.00
StrippingZ02eeDecision	27	0	0.00

* Correlation plot for the EW stream:



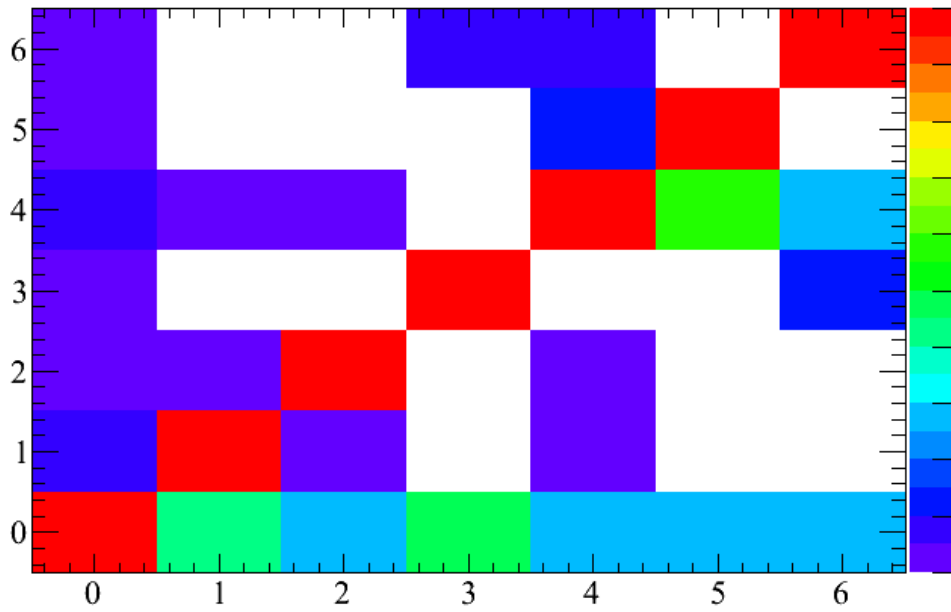
Radiative stream:

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	155	0.15
StrippingBs2PhiGammaDecision	4	32	0.03
StrippingBd2KstGammaLooseDiraDecision	1	22	0.02
StrippingBd2KstGammaWideBMassDecision	2	22	0.02
StrippingBd2KstGammaWideKstMassBdDecision	3	13	0.01
StrippingBs2PhiGammaLooseDiraDecision	5	7	0.01
StrippingBs2PhiGammaWideBMassDecision	6	7	0.01

* Correlation plot for the Radiative stream:

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-- GreigCowan - 08-Sep-2010

This topic: LHCb > StrippingStatisticsSept2010

Topic revision: r2 - 2010-09-08 - unknown



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