

# Table of Contents

|   |          |
|---|----------|
| <b>Correlations of Hlt lines.....</b>             | <b>1</b> |
| Numbers obtained from S20 No Bias data.....       | 1        |
| L0 statistics.....                                | 1        |
| L0 versus L0 correlation table.....               | 1        |
| Hlt1 statistics.....                              | 1        |
| Hlt1 versus Hlt1 correlation table.....           | 2        |
| L0 versus Hlt1 correlation table.....             | 2        |
| Hlt1 versus L0 correlation table.....             | 3        |
| Numbers obtained from Run 125113.....             | 3        |
| Hlt2 categories correlation table.....            | 3        |
| Hlt1 versus Hlt2 correlation table.....           | 3        |
| Hlt2 versus Hlt1 correlation table.....           | 4        |
| L0 versus Hlt2 correlation table.....             | 4        |
| Hlt2 versus L0 correlation table.....             | 5        |
| Hlt2 statistics.....                              | 5        |
| Hlt2 versus All Hlt2 Lines correlation table..... | 9        |
| Stripping streams correlation table.....          | 12       |
| Stripping versus Hlt2 correlation table.....      | 13       |
| Hlt2 versus Stripping correlation table.....      | 13       |
| Stripping versus Hlt1 correlation table.....      | 14       |
| Hlt1 versus Stripping correlation table.....      | 14       |
| Stripping versus L0 correlation table.....        | 14       |
| L0 versus Stripping correlation table.....        | 15       |
| Stripping versus allHlt2 correlation table.....   | 15       |

# Correlations of Hlt lines

This pages shows some statistics from 2012 data. For more details refer to LHCb-INT-2013-009 (svn). The code is in svn.

## Numbers obtained from S20 No Bias data

The following stats are obtained from all events selected by the NoBias stripping line. That's 5 million events of which 300k pass L0, 20k Hlt1 and 3k Hlt2. That's not enough to make Hlt2 correlations but has the advantage of allowing L0 and Hlt1 stats for the whole of 2012.

### L0 statistics

First the fraction of events from the relevant lines in L0-accepted and stripping-accepted events is given. The ratio column gives the ratio of these numbers. The "purity" is the fraction of events accepted by that line that pass the stripping. "Uniq." is the fraction of events that are only accepted by this line, and <Lines> the average number of lines fired. This allows to calculate a weighted contribution to the L0 bandwidth. Finally the average SPD multiplicity is given.

| L0 Line        | Fraction of L0 events | Fraction of Strip events | ratio | purity | Uniq. | <Lines> | Weighted | <SPD> |
|----------------|-----------------------|--------------------------|-------|--------|-------|---------|----------|-------|
| Global         | 100%                  | 100%                     | 1     | 0.16%  | 83%   | 1.18    | 100%     | 349   |
| Electron       | 11.71%                | 16.86%                   | 1.44  | 0.22%  | 59%   | 1.49    | 9.17%    | 335   |
| Photon         | 5.7%                  | 5.81%                    | 1.02  | 0.16%  | 64%   | 1.45    | 4.59%    | 318   |
| Hadron         | 51.06%                | 50%                      | 0.98  | 0.15%  | 82%   | 1.21    | 46.19%   | 361   |
| Muon           | 40.22%                | 47.09%                   | 1.17  | 0.18%  | 72%   | 1.32    | 34.38%   | 336   |
| DiMuon         | 9.16%                 | 28.49%                   | 3.11  | 0.48%  | 24%   | 1.9     | 5.47%    | 461   |
| Muon,lowMult   | 0.19%                 | 0%                       | 0     | 0%     | 83%   | 1.17    | 0.18%    | 13    |
| DiMuon,lowMult | 0.01%                 | 0%                       | 0     | 0%     | 15%   | 1.95    | 0.01%    | 14    |

Sum of weights = 1

### L0 versus L0 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed L0.

| Lines    | Global | Hadron | Muon  | DiMuon | Photon | Electron | LoMu  |
|----------|--------|--------|-------|--------|--------|----------|-------|
| Hadron   | 51.1%  | #      | 11.2% | 11.4%  | 26.4%  | 33.6%    | 0.2%  |
| Muon     | 40.2%  | 8.8%   | #     | 75.7%  | 7.6%   | 8.5%     | 11.2% |
| DiMuon   | 9.2%   | 2%     | 17.2% | #      | 1.6%   | 1.9%     | 0.3%  |
| Photon   | 5.7%   | 2.9%   | 1.1%  | 1%     | #      | 4.7%     |       |
| Electron | 11.7%  | 7.7%   | 2.5%  | 2.4%   | 9.6%   | #        |       |
| LoMu     | 0.2%   | 0%     | 0.1%  | 0%     |        |          | #     |
| Unique   | 84%    | 82.1%  | 72.4% | 24.1%  | 64.1%  | 59.1%    | 88.6% |

### Hlt1 statistics

First the fraction of events from the relevant line is given. "Uniq." is the fraction of events that are only accepted by this line, and <Lines> the average number of lines fired. This allows to calculate a weighted contribution to the L0 bandwidth. The average SPD multiplicity is also given. The last columns give the

efficiency the next trigger levels of events accepted by this line.

| Hlt1 Line          | Fraction of Hlt1 events | Uniq. | <Lines> | Weighted | <SPD> | Hlt2 eff. | Strip eff. |
|--------------------|-------------------------|-------|---------|----------|-------|-----------|------------|
| Global             | 100%                    | 88.7% | 1.13    | 100%     | 382   | 7.52%     | 2.29%      |
| DiMuonHighMass     | 3.12%                   | 71%   | 1.44    | 2.6%     | 425   | 18.49%    | 12.52%     |
| DiMuonLowMass      | 3.88%                   | 60.1% | 1.55    | 3.02%    | 491   | 7.54%     | 2.86%      |
| SingleMuonNoIP     | 0.74%                   | 83.2% | 1.25    | 0.67%    | 342   | 3.59%     | 1.8%       |
| SingleMuonHighPT   | 1.37%                   | 66.2% | 1.54    | 1.1%     | 326   | 18.83%    | 8.12%      |
| SingleElectronNoIP | 1.41%                   | 70.8% | 1.41    | 1.18%    | 341   | 5.64%     | 1.25%      |
| TrackAllL0         | 70.72%                  | 86.5% | 1.15    | 65.79%   | 404   | 8.24%     | 2.45%      |
| TrackMuon          | 14.57%                  | 57.8% | 1.49    | 11.34%   | 393   | 15.44%    | 3.9%       |
| TrackPhoton        | 7.73%                   | 48.3% | 1.57    | 5.67%    | 381   | 8.5%      | 2.24%      |
| Lumi               | 0.01%                   | 100%  | 1       | 0.01%    | 162   | 100%      | 0%         |
| MBMicroBiasVelo    | 0.01%                   | 33.3% | 1.67    | 0.01%    | 278   | 33.33%    | 0%         |
| NoVPassThrough     | 2.92%                   | 100%  | 1       | 2.92%    | 13    | 0.91%     | 0%         |
| DiProton           | 6.07%                   | 88.7% | 1.14    | 5.71%    | 227   | 1.83%     | 0.66%      |
| DiProtonLowMult    | 0.04%                   | 100%  | 1       | 0.04%    | 11    | 0%        | 0%         |
| VertexDisplVertex  | 0.24%                   | 88.7% | 1.11    | 0.22%    | 571   | 7.55%     | 3.77%      |

## Hlt1 versus Hlt1 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt1.

| Lines              | Global | TrackAllL0 | TrackMuon | DiMuonHighMass | DiMuonLowMass | SingleMuonNoIP |
|--------------------|--------|------------|-----------|----------------|---------------|----------------|
| TrackAllL0         | 70.7%  | #          | 34.8%     | 12.8%          | 13.9%         | 8.4%           |
| TrackMuon          | 14.6%  | 7.2%       | #         | 13.7%          | 29.7%         | 8.4%           |
| DiMuonHighMass     | 3.1%   | 0.6%       | 2.9%      | #              | 8.5%          | 4.2%           |
| DiMuonLowMass      | 3.9%   | 0.8%       | 7.9%      | 10.5%          | #             | 1.2%           |
| SingleMuonNoIP     | 0.7%   | 0.1%       | 0.4%      | 1%             | 0.2%          | #              |
| SingleMuonHighPT   | 1.4%   | 0.3%       | 1.5%      | 4.6%           | 1.6%          | 1.2%           |
| TrackPhoton        | 7.7%   | 5.3%       | 1.1%      | 1.1%           | 0.6%          | 1.2%           |
| SingleElectronNoIP | 1.4%   | 0.2%       | 0.1%      | 0.4%           | 0.3%          |                |
| NoVPassThrough     | 2.9%   |            |           |                |               |                |
| DiProton           | 6.1%   | 0.6%       | 0.2%      | 0.3%           | 0.1%          |                |
| Unique             | 88.7%  | 86.5%      | 57.8%     | 71%            | 60.1%         | 83.2%          |

## L0 versus Hlt1 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt1.

| Lines    | Global | TrackAllL0 | TrackMuon | DiMuonHighMass | DiMuonLowMass | SingleMuonNoIP | SingleMu |
|----------|--------|------------|-----------|----------------|---------------|----------------|----------|
| Global   | #      | 100%       | 100%      | 100%           | 100%          | 100%           | 100%     |
| Hadron   | 53%    | 59.8%      | 14.6%     | 17.8%          | 16.5%         | 15%            | 32.5%    |
| Muon     | 38.5%  | 33.4%      | 88.7%     | 85.6%          | 75.5%         | 100%           | 100%     |
| DiMuon   | 15.1%  | 11.9%      | 34.5%     | 64.7%          | 53.1%         | 15%            | 29.9%    |
| Photon   | 5.7%   | 5.4%       | 1.5%      | 2.4%           | 0.8%          | 1.8%           | 7.1%     |
| Electron | 15.3%  | 13.6%      | 3.9%      | 5%             | 3.4%          | 1.8%           | 11.7%    |
| LoMu     | 2.9%   |            |           |                |               |                |          |
| Unique   | 74.3%  | 79.4%      | 64.7%     | 40.7%          | 61.3%         | 71.3%          | 42.9%    |

## Hlt1 versus L0 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt1.

| Lines              | Global | Hadron | Muon  | DiMuon | Photon | Electron | LoMu |
|--------------------|--------|--------|-------|--------|--------|----------|------|
| Global             | #      | 100%   | 100%  | 100%   | 100%   | 100%     | 100% |
| TrackAllL0         | 70.7%  | 79.8%  | 61.3% | 55.8%  | 67.2%  | 62.9%    |      |
| TrackMuon          | 14.6%  | 4%     | 33.6% | 33.3%  | 3.8%   | 3.7%     |      |
| DiMuonHighMass     | 3.1%   | 1%     | 6.9%  | 13.4%  | 1.3%   | 1%       |      |
| DiMuonLowMass      | 3.9%   | 1.2%   | 7.6%  | 13.7%  | 0.5%   | 0.9%     |      |
| SingleMuonNoIP     | 0.7%   | 0.2%   | 1.9%  | 0.7%   | 0.2%   | 0.1%     |      |
| SingleMuonHighPT   | 1.4%   | 0.8%   | 3.5%  | 2.7%   | 1.7%   | 1%       |      |
| TrackPhoton        | 7.7%   | 7.2%   | 2.6%  | 1.4%   | 41.9%  | 39%      |      |
| SingleElectronNoIP | 1.4%   | 2.5%   | 0.5%  | 0.4%   | 2.6%   | 9.2%     |      |
| NoVPassThrough     | 2.9%   | 0%     | 0.8%  | 0.1%   | 0.2%   | 0.1%     | 100% |
| DiProton           | 6.1%   | 11.4%  | 1%    | 0.3%   | 7%     | 7.6%     |      |
| Unique             | 88.7%  | 92.7%  | 82.7% | 82.3%  | 76.2%  | 76.7%    | 100% |

## Numbers obtained from Run 125113

Run 125113 [↗](#) is the stripping test run for 2012 data. It was taken on 8 August 2012 with TCK 0x00990042. The numbers in the tables below are obtained from all Hlt2-accepted events in this run.

## Hlt2 categories correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt2.

| Lines        | Global | Muon  | CharmMuon | CharmHad | Topo  | Electron | Gamma | Exclusive | EW    | DisplV | LoMu |
|--------------|--------|-------|-----------|----------|-------|----------|-------|-----------|-------|--------|------|
| Muon         | 36.4%  | #     | 35%       | 8.3%     | 28.4% | 14.2%    | 6.1%  | 5.4%      | 23.3% | 13.8%  | 0%   |
| CharmMuon    | 3.4%   | 3.3%  | #         | 2.5%     | 1.6%  | 0.9%     | 0.7%  | 0.7%      | 0.8%  | 1.2%   | 0%   |
| CharmHad     | 36.6%  | 8.3%  | 26.4%     | #        | 24.4% | 30.1%    | 25%   | 15.6%     | 4%    | 15.2%  |      |
| Topo         | 28.8%  | 22.5% | 13.6%     | 19.2%    | #     | 59.8%    | 21.3% | 13%       | 8.4%  | 28.4%  |      |
| Electron     | 5.3%   | 2.1%  | 1.4%      | 4.4%     | 11%   | #        | 14.8% | 2.9%      | 3.9%  | 4.8%   |      |
| Gamma        | 3.7%   | 0.6%  | 0.8%      | 2.5%     | 2.7%  | 10.2%    | #     | 1.9%      | 0.8%  | 2%     |      |
| Exclusive    | 3.1%   | 0.5%  | 0.6%      | 1.3%     | 1.4%  | 1.7%     | 1.6%  | #         | 0.2%  | 0.9%   |      |
| EW           | 1.7%   | 1.1%  | 0.4%      | 0.2%     | 0.5%  | 1.3%     | 0.4%  | 0.1%      | #     | 0.4%   | 0%   |
| DisplV       | 0.6%   | 0.2%  | 0.2%      | 0.2%     | 0.6%  | 0.5%     | 0.3%  | 0.2%      | 0.1%  | #      |      |
| LoMu         | 2%     | 0%    | 0%        |          |       |          |       |           | 0%    |        | #    |
| Technical    | 4.7%   | 1.6%  | 0.7%      | 1.1%     | 1.9%  | 1.1%     | 0.4%  | 1.5%      | 0.3%  | 0.4%   | 0%   |
| Unique       | 79.1%  | 70%   | 50.9%     | 71.7%    | 44.6% | 24.2%    | 57.8% | 73%       | 72.2% | 61.3%  | 99%  |
| Rate [Hz]    | 4382   | 1596  | 151       | 1603     | 1263  | 233      | 161   | 136       | 76    | 25     | 89   |
| <SPD>        | 376    | 391   | 379       | 371      | 408   | 375      | 362   | 392       | 370   | 509    | 6    |
| B/W fraction | 100%   | 37.8% | 3.5%      | 36.1%    | 31.3% | 5.3%     | 3.5%  | 3.2%      | 1.7%  | 0.8%   | 0%   |

## Hlt1 versus Hlt2 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt2.

HltCorrelations < LHCb < TWiki

| Lines              | Global | Muon  | CharmMuon | CharmHad | Topo  | Electron | Gamma | Exclusive | EW    | Dis   |
|--------------------|--------|-------|-----------|----------|-------|----------|-------|-----------|-------|-------|
| Global             | 100%   | 100%  | 100%      | 100%     | 100%  | 100%     | 100%  | 100%      | 100%  | 100%  |
| TrackAllL0         | 76.1%  | 57.8% | 67.7%     | 98.2%    | 96.4% | 96.6%    | 90%   | 85.8%     | 31.2% | 83.1% |
| TrackMuon          | 29%    | 67.6% | 85.1%     | 10.5%    | 19.7% | 6.2%     | 4.8%  | 7.4%      | 17.9% | 20.8% |
| DiMuonHighMass     | 6.3%   | 16.1% | 4%        | 0.7%     | 1.6%  | 0.5%     | 0.3%  | 0.9%      | 13.8% | 2.7%  |
| DiMuonLowMass      | 4.1%   | 9.1%  | 17.6%     | 1.4%     | 3.1%  | 0.9%     | 0.7%  | 1.7%      | 5%    | 6.4%  |
| SingleMuonNoIP     | 0.3%   | 0.6%  | 0.7%      | 0.1%     | 0.2%  | 0.1%     | 0.1%  | 0.1%      | 0.5%  | 0.2%  |
| SingleMuonHighPT   | 3.8%   | 7.9%  | 4.6%      | 1.2%     | 3.3%  | 1.7%     | 1%    | 0.7%      | 54.3% | 2.1%  |
| TrackPhoton        | 7.4%   | 2.7%  | 3%        | 9%       | 9.1%  | 40.2%    | 40%   | 10%       | 13.6% | 7.3%  |
| SingleElectronNoIP | 0.9%   | 0.3%  | 0.2%      | 0.5%     | 0.7%  | 4%       | 1.7%  | 0.6%      | 27.4% | 1%    |
| NoVPassThrough     | 2.1%   | 0%    | 0%        | 0%       | 0%    |          | 0%    | 0%        | 0%    |       |
| DiProton           | 1.5%   | 0.7%  | 0.6%      | 1.5%     | 2%    | 2.8%     | 2.2%  | 9.9%      | 5.5%  | 1.7%  |
| Unique             | 69.3%  | 50.9% | 34.7%     | 80.1%    | 72.5% | 57.6%    | 65.2% | 85%       | 58%   | 76.4% |

**Hlt2 versus Hlt1 correlation table**

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed Hlt2.

| Lines     | Global | TrackAllL0 | TrackMuon | DiMuonHighMass | DiMuonLowMass | SingleMuonNoIP | Sing  |
|-----------|--------|------------|-----------|----------------|---------------|----------------|-------|
| Global    | 100%   | 100%       | 100%      | 100%           | 100%          | 100%           | 100%  |
| Muon      | 36.4%  | 27.7%      | 85%       | 92.4%          | 81.1%         | 79.5%          | 76.3% |
| CharmMuon | 3.4%   | 3.1%       | 10.1%     | 2.2%           | 14.8%         | 8.4%           | 4.2%  |
| CharmHad  | 36.6%  | 47.2%      | 13.3%     | 3.9%           | 12.3%         | 15.4%          | 11.2% |
| Topo      | 28.8%  | 36.5%      | 19.6%     | 7.1%           | 21.9%         | 16.2%          | 25.5% |
| Electron  | 5.3%   | 6.8%       | 1.1%      | 0.4%           | 1.1%          | 1.4%           | 2.4%  |
| Gamma     | 3.7%   | 4.3%       | 0.6%      | 0.2%           | 0.6%          | 0.8%           | 1%    |
| Exclusive | 3.1%   | 3.5%       | 0.8%      | 0.4%           | 1.3%          | 1.2%           | 0.6%  |
| EW        | 1.7%   | 0.7%       | 1.1%      | 3.8%           | 2.1%          | 2.7%           | 25%   |
| DisplV    | 0.6%   | 0.6%       | 0.4%      | 0.2%           | 0.9%          | 0.4%           | 0.3%  |
| LoMu      | 2%     | 0%         | 0%        | 0%             | 0%            | 0%             | 0%    |
| Technical | 4.7%   | 1.8%       | 0.9%      | 7.2%           | 2.8%          | 3.3%           | 1.2%  |
| Unique    | 79.1%  | 74.9%      | 74.5%     | 84.7%          | 70.7%         | 77.4%          | 65.3% |

**L0 versus Hlt2 correlation table**

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed Hlt2.

| Lines    | Global | Muon  | CharmMuon | CharmHad | Topo  | Electron | Gamma | Exclusive | EW    | DisplV | LoMu  |
|----------|--------|-------|-----------|----------|-------|----------|-------|-----------|-------|--------|-------|
| Global   | 100%   | 100%  | 100%      | 100%     | 100%  | 100%     | 100%  | 100%      | 100%  | 100%   | 100%  |
| Hadron   | 48.4%  | 25.3% | 26.8%     | 67.7%    | 63.7% | 58.5%    | 52.2% | 65.9%     | 52.9% | 49.2%  | 0.3%  |
| Muon     | 45.7%  | 79.9% | 89.5%     | 30.6%    | 34.6% | 17.1%    | 15.1% | 28.3%     | 65.6% | 28.5%  | 1.7%  |
| DiMuon   | 20%    | 37.5% | 34.9%     | 9.6%     | 16.6% | 4.8%     | 4%    | 11.7%     | 32.4% | 34.3%  | 0.2%  |
| Photon   | 5.8%   | 2.8%  | 3%        | 7.2%     | 6.6%  | 8.3%     | 32.1% | 8%        | 8.6%  | 5.4%   | 0%    |
| Electron | 16.1%  | 7%    | 7.4%      | 18.3%    | 18.7% | 100%     | 74.5% | 19.3%     | 43.5% | 15%    | 0%    |
| LoMu     | 0.4%   | 0%    | 0%        | 0%       | 0%    |          |       | 0%        | 0%    |        | 17.5% |
| Unique   | 64.3%  | 59.1% | 53.2%     | 72.4%    | 68.5% | 33.2%    | 40.9% | 73.1%     | 33.2% | 74.3%  | 16.1% |

## Hlt2 versus L0 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt2.

| Lines     | Global | Hadron | Muon  | DiMuon | Photon | Electron | LoMu  |
|-----------|--------|--------|-------|--------|--------|----------|-------|
| Global    | 100%   | 100%   | 100%  | 100%   | 100%   | 100%     | 100%  |
| Muon      | 36.4%  | 19%    | 63.7% | 68.4%  | 17.8%  | 15.8%    | 0.7%  |
| CharmMuon | 3.4%   | 1.9%   | 6.7%  | 6%     | 1.8%   | 1.6%     | 0%    |
| CharmHad  | 36.6%  | 51.2%  | 24.5% | 17.6%  | 45.2%  | 41.6%    | 0%    |
| Topo      | 28.8%  | 37.9%  | 21.8% | 24%    | 32.7%  | 33.4%    | 0%    |
| Electron  | 5.3%   | 6.4%   | 2%    | 1.3%   | 7.6%   | 33%      |       |
| Gamma     | 3.7%   | 3.9%   | 1.2%  | 0.7%   | 20.3%  | 16.9%    |       |
| Exclusive | 3.1%   | 4.2%   | 1.9%  | 1.8%   | 4.3%   | 3.7%     | 0%    |
| EW        | 1.7%   | 1.9%   | 2.5%  | 2.8%   | 2.6%   | 4.7%     | 0%    |
| DisplV    | 0.6%   | 0.6%   | 0.4%  | 1%     | 0.5%   | 0.5%     |       |
| LoMu      | 2%     | 0%     | 0.1%  | 0%     | 0%     | 0%       | 98.5% |
| Technical | 4.7%   | 2.7%   | 2.7%  | 3.3%   | 2.2%   | 1.7%     | 1.1%  |
| Unique    | 79.1%  | 76.7%  | 78.5% | 78.4%  | 74%    | 63.8%    | 99.7% |

## Hlt2 statistics

| Line                | Rate       | Uniq. | <Lines> | Weighted Rate | <SPD> | Rel. B/W. |
|---------------------|------------|-------|---------|---------------|-------|-----------|
| Global              | 4382.23 Hz | 63.1% | 1.77    | 4382.23 Hz    | 376   | 100%      |
| DiMuonJPsi          | 63.28 Hz   | 40.9% | 2.04    | 41.63 Hz      | 433   | 1.09%     |
| DiMuonJPsiHighPT    | 142.72 Hz  | 54.1% | 1.95    | 103.57 Hz     | 408   | 2.56%     |
| DiMuonPsi2S         | 6.38 Hz    | 42.9% | 2.04    | 4.24 Hz       | 442   | 0.11%     |
| DiMuonPsi2SHighPT   | 26 Hz      | 59.6% | 1.86    | 19.56 Hz      | 424   | 0.5%      |
| DiMuonB             | 102.01 Hz  | 72.7% | 1.52    | 85.47 Hz      | 428   | 2.22%     |
| DiMuonZ             | 0.06 Hz    | 0%    | 6.27    | 0.01 Hz       | 427   | 0%        |
| DiMuonDY1           | 4.14 Hz    | 75.3% | 1.42    | 3.55 Hz       | 468   | 0.1%      |
| DiMuonDY2           | 1.9 Hz     | 9.2%  | 2.4     | 0.93 Hz       | 424   | 0.02%     |
| DiMuonDY3           | 2.86 Hz    | 5.6%  | 3.25    | 1.13 Hz       | 424   | 0.03%     |
| DiMuonDY4           | 0.19 Hz    | 0%    | 5.39    | 0.04 Hz       | 452   | 0%        |
| DiMuonDetached      | 168.86 Hz  | 57.8% | 2.2     | 121.56 Hz     | 454   | 3.35%     |
| DiMuonDetachedHeavy | 78.07 Hz   | 29.5% | 2.88    | 42.16 Hz      | 469   | 1.2%      |
| DiMuonDetachedJPsi  | 50.46 Hz   | 16.7% | 3.25    | 22.92 Hz      | 461   | 0.64%     |
| DiMuonDetachedPsi2S | 17.12 Hz   | 29.2% | 2.5     | 9.7 Hz        | 479   | 0.28%     |
| TriMuonDetached     | 1.26 Hz    | 18%   | 5.26    | 0.47 Hz       | 478   | 0.01%     |
| DoubleDiMuon        | 1 Hz       | 7.2%  | 3.57    | 0.37 Hz       | 563   | 0.01%     |
| DiMuonAndMuon       | 1.24 Hz    | 0%    | 6.41    | 0.24 Hz       | 509   | 0.01%     |
| TriMuonTau          | 12.04 Hz   | 40.7% | 2.56    | 7.35 Hz       | 558   | 0.25%     |
| DiMuonAndD0         | 1.94 Hz    | 15.1% | 3.46    | 0.84 Hz       | 528   | 0.03%     |
| DiMuonAndDp         | 1.13 Hz    | 12.6% | 3.93    | 0.45 Hz       | 523   | 0.01%     |
| DiMuonAndDs         | 0.14 Hz    | 9.2%  | 4.52    | 0.05 Hz       | 560   | 0%        |
| DiMuonAndLc         | 0.73 Hz    | 13.4% | 3.75    | 0.3 Hz        | 526   | 0.01%     |

## HltCorrelations &lt; LHCb &lt; TWiki

|                               |           |       |      |           |     |       |
|-------------------------------|-----------|-------|------|-----------|-----|-------|
| SingleTFElectron              | 12.22 Hz  | 53.4% | 2.02 | 8.82 Hz   | 349 | 0.19% |
| SingleElectronTFLowPt         | 0.22 Hz   | 75.5% | 1.61 | 0.19 Hz   | 363 | 0%    |
| SingleElectronTFHighPt        | 0.58 Hz   | 62.3% | 1.63 | 0.46 Hz   | 333 | 0.01% |
| SingleTFVHighPtElectron       | 11.79 Hz  | 63.8% | 1.55 | 9.46 Hz   | 341 | 0.2%  |
| DiElectronHighMass            | 0.03 Hz   | 0%    | 2.95 | 0.01 Hz   | 321 | 0%    |
| DiElectronB                   | 1.11 Hz   | 63.3% | 1.71 | 0.86 Hz   | 357 | 0.02% |
| B2HHLTUnbiasedDetached        | 2.26 Hz   | 62.4% | 2.07 | 1.69 Hz   | 360 | 0.04% |
| Topo2BodyBBDT                 | 517.31 Hz | 32.5% | 2.94 | 281.95 Hz | 399 | 6.83% |
| Topo3BodyBBDT                 | 715.07 Hz | 22%   | 3.24 | 336.18 Hz | 404 | 8.25% |
| Topo4BodyBBDT                 | 576.41 Hz | 16.1% | 3.56 | 241.95 Hz | 415 | 6.09% |
| TopoMu2BodyBBDT               | 292.29 Hz | 20.2% | 3.5  | 130.76 Hz | 373 | 2.96% |
| TopoMu3BodyBBDT               | 355.43 Hz | 15%   | 3.84 | 139.6 Hz  | 403 | 3.41% |
| TopoMu4BodyBBDT               | 243.57 Hz | 9.8%  | 4.35 | 81.93 Hz  | 419 | 2.08% |
| TopoE2BodyBBDT                | 107.16 Hz | 21.1% | 3.77 | 47.16 Hz  | 362 | 1.04% |
| TopoE3BodyBBDT                | 140.76 Hz | 12.1% | 4.27 | 50.08 Hz  | 376 | 1.14% |
| TopoE4BodyBBDT                | 114.5 Hz  | 7%    | 4.74 | 34.68 Hz  | 383 | 0.81% |
| IncPhi                        | 86.7 Hz   | 65.6% | 1.9  | 67.38 Hz  | 391 | 1.6%  |
| IncPhiSidebands               | 5.39 Hz   | 15%   | 2.62 | 2.72 Hz   | 394 | 0.07% |
| CharmHadD02HHKsLL             | 24.5 Hz   | 72.4% | 1.57 | 20.4 Hz   | 389 | 0.48% |
| CharmHadD02HHKsDD             | 12.33 Hz  | 69.2% | 1.63 | 10.02 Hz  | 351 | 0.21% |
| Dst2PiD02PiPi                 | 3.9 Hz    | 71.7% | 1.67 | 3.19 Hz   | 478 | 0.09% |
| Dst2PiD02MuMu                 | 3.55 Hz   | 34.4% | 2.83 | 2.01 Hz   | 405 | 0.05% |
| Dst2PiD02KMu                  | 3.78 Hz   | 52.1% | 2.23 | 2.6 Hz    | 423 | 0.07% |
| Dst2PiD02KPi                  | 4.49 Hz   | 49.8% | 2.09 | 3.06 Hz   | 430 | 0.08% |
| PassThrough                   | 6.82 Hz   | 93.6% | 1.11 | 6.56 Hz   | 324 | 0.13% |
| Transparent                   | 122.93 Hz | 99.2% | 1.01 | 122.37 Hz | 217 | 1.61% |
| Lumi                          | 0.39 Hz   | 0%    | 2.58 | 0.17 Hz   | 329 | 0%    |
| Forward                       | 0.56 Hz   | 91.2% | 1.16 | 0.53 Hz   | 391 | 0.01% |
| DebugEvent                    | 0.06 Hz   | 95.2% | 1.13 | 0.06 Hz   | 321 | 0%    |
| CharmHadD2KS0KS0              | 0.01 Hz   | 42.3% | 2.5  | 0.01 Hz   | 403 | 0%    |
| CharmHadD2KS0KS0WideMass      | 0 Hz      | 20%   | 2.4  | 0 Hz      | 389 | 0%    |
| CharmHadD02HH_D02PiPi         | 46.91 Hz  | 19.6% | 3.17 | 21.98 Hz  | 378 | 0.5%  |
| CharmHadD02HH_D02PiPiWideMass | 18.32 Hz  | 5.8%  | 3.32 | 7.11 Hz   | 376 | 0.16% |
| CharmHadD02HH_D02KK           | 160.46 Hz | 31%   | 2.71 | 89.04 Hz  | 370 | 2%    |
| CharmHadD02HH_D02KKWideMass   | 48.67 Hz  | 15.5% | 3.01 | 22.28 Hz  | 369 | 0.5%  |
| CharmHadD02HH_D02KPi          | 252.73 Hz | 30.2% | 2.63 | 140.75 Hz | 369 | 3.15% |
| CharmHadD02HH_D02KPiWideMass  | 38.87 Hz  | 2.9%  | 3.42 | 14.25 Hz  | 371 | 0.32% |
| ExpressJPsi                   | 24.99 Hz  | 26.2% | 2.33 | 14.27 Hz  | 404 | 0.35% |
| ExpressLambda                 | 1.48 Hz   | 91.9% | 1.14 | 1.41 Hz   | 421 | 0.04% |
| ExpressKS                     | 2.03 Hz   | 89.1% | 1.18 | 1.9 Hz    | 419 | 0.05% |



## HltCorrelations &lt; LHCb &lt; TWiki

|                                    |           |       |      |           |     |        |
|------------------------------------|-----------|-------|------|-----------|-----|--------|
| ExpressDs2PhiPi                    | 6.46 Hz   | 15%   | 3.49 | 2.7 Hz    | 380 | 0.06%  |
| ExpressBeamHalo                    | 3.43 Hz   | 92.8% | 1.13 | 3.29 Hz   | 426 | 0.09%  |
| ExpressDStar2D0Pi                  | 1.25 Hz   | 18.5% | 3.59 | 0.52 Hz   | 378 | 0.01%  |
| ExpressD02KPi                      | 17.99 Hz  | 37%   | 2.53 | 10.62 Hz  | 420 | 0.27%  |
| CharmHadLambdaC2KPPi               | 80.98 Hz  | 6.8%  | 4.42 | 26.08 Hz  | 380 | 0.6%   |
| CharmHadLambdaC2KPPiWideMass       | 12.9 Hz   | 2.1%  | 4.85 | 3.47 Hz   | 380 | 0.08%  |
| CharmHadLambdaC2KPK                | 96.15 Hz  | 18%   | 3.76 | 40.68 Hz  | 378 | 0.93%  |
| CharmHadLambdaC2KPKWideMass        | 14.74 Hz  | 7%    | 4.27 | 4.94 Hz   | 377 | 0.11%  |
| CharmHadLambdaC2PiPPi              | 50.41 Hz  | 10.8% | 4.44 | 17.47 Hz  | 385 | 0.41%  |
| CharmHadLambdaC2PiPPiWideMass      | 8.66 Hz   | 4%    | 4.92 | 2.44 Hz   | 386 | 0.06%  |
| CharmHadLambdaC2PiPK               | 73.28 Hz  | 6.2%  | 4.51 | 23.02 Hz  | 380 | 0.53%  |
| CharmHadLambdaC2PiPKWideMass       | 12.22 Hz  | 2.2%  | 4.89 | 3.28 Hz   | 380 | 0.08%  |
| Bs2PhiGamma                        | 1.16 Hz   | 37.5% | 2.42 | 0.71 Hz   | 423 | 0.02%  |
| Bs2PhiGammaWideBMass               | 0.22 Hz   | 25%   | 2.71 | 0.12 Hz   | 407 | 0%     |
| Bd2KstGamma                        | 4.91 Hz   | 58.4% | 1.96 | 3.64 Hz   | 424 | 0.09%  |
| Bd2KstGammaWideKMass               | 0.28 Hz   | 5.9%  | 2.75 | 0.12 Hz   | 423 | 0%     |
| Bd2KstGammaWideBMass               | 0.45 Hz   | 27.9% | 2.53 | 0.25 Hz   | 420 | 0.01%  |
| CharmHadD2KS0H_D2KS0Pi             | 12.2 Hz   | 50.3% | 1.7  | 8.85 Hz   | 421 | 0.23%  |
| CharmHadD2KS0H_D2KS0K              | 13.06 Hz  | 49.4% | 1.73 | 9.38 Hz   | 413 | 0.24%  |
| CharmHadD2KS0H_D2KS0DDPi           | 22.95 Hz  | 28.9% | 1.94 | 14.19 Hz  | 355 | 0.31%  |
| CharmHadD2KS0H_D2KS0DDK            | 25.63 Hz  | 32.1% | 1.91 | 16.25 Hz  | 350 | 0.35%  |
| DiPhi                              | 9.71 Hz   | 89.1% | 1.21 | 9.09 Hz   | 429 | 0.24%  |
| CharmRareDecayD02MuMu              | 3.12 Hz   | 62.4% | 2.02 | 2.35 Hz   | 460 | 0.07%  |
| B2HH                               | 19.21 Hz  | 67.1% | 1.72 | 15.26 Hz  | 486 | 0.45%  |
| LowMultD2KPi                       | 8.24 Hz   | 47.7% | 1.85 | 5.68 Hz   | 7   | 0%     |
| LowMultD2KPiPi                     | 23.1 Hz   | 68.1% | 1.44 | 19.01 Hz  | 7   | 0.01%  |
| LowMultD2K3Pi                      | 1.87 Hz   | 57%   | 1.61 | 1.42 Hz   | 7   | 0%     |
| LowMultChiC2HH                     | 0.79 Hz   | 32.4% | 1.9  | 0.5 Hz    | 6   | 0%     |
| LowMultChiC2HHHH                   | 18.44 Hz  | 30.8% | 1.98 | 11.27 Hz  | 6   | 0%     |
| LowMultD2KPiWS                     | 0.43 Hz   | 65.3% | 1.66 | 0.34 Hz   | 7   | 0%     |
| LowMultD2KPiPiWS                   | 0.78 Hz   | 65.3% | 1.61 | 0.62 Hz   | 7   | 0%     |
| LowMultD2K3PiWS                    | 0.37 Hz   | 57.3% | 1.68 | 0.28 Hz   | 7   | 0%     |
| LowMultChiC2HHWS                   | 0.03 Hz   | 37.8% | 1.87 | 0.02 Hz   | 6   | 0%     |
| LowMultChiC2HHHHWS                 | 0.97 Hz   | 21.8% | 2.57 | 0.49 Hz   | 7   | 0%     |
| LowMultDDInc                       | 22.18 Hz  | 44.1% | 1.78 | 15.26 Hz  | 6   | 0.01%  |
| SingleMuon                         | 595.38 Hz | 85.1% | 1.4  | 536.71 Hz | 338 | 11.01% |
| SingleMuonHighPT                   | 48.01 Hz  | 53.6% | 2.04 | 34.43 Hz  | 372 | 0.78%  |
| SingleMuonVHighPT                  | 11.54 Hz  | 0%    | 2.83 | 4.85 Hz   | 409 | 0.12%  |
| SingleMuonLowPT                    | 1.63 Hz   | 76.3% | 1.56 | 1.39 Hz   | 338 | 0.03%  |
| DiProton                           | 11.78 Hz  | 99.1% | 1.02 | 11.72 Hz  | 205 | 0.15%  |
| DiProtonLowMult                    | 5.91 Hz   | 79.1% | 1.35 | 5.18 Hz   | 7   | 0%     |
| CharmSemilepD02HMuNu_D02KMuNuWS    | 1.23 Hz   | 52.4% | 2.44 | 0.84 Hz   | 337 | 0.02%  |
| CharmSemilepD02HMuNu_D02PiMuNuWS   | 0.98 Hz   | 51.8% | 2.49 | 0.66 Hz   | 337 | 0.01%  |
| CharmSemilepD02HMuNu_D02KMuNu      | 13.62 Hz  | 44.1% | 2.47 | 8.66 Hz   | 332 | 0.17%  |
| CharmSemilepD02HMuNu_D02KMuNuTight | 84.35 Hz  | 43.9% | 2.59 | 53.08 Hz  | 347 | 1.12%  |
| CharmSemilepD02HMuNu_D02PiMuNu     | 11.16 Hz  | 41.5% | 2.61 | 6.85 Hz   | 334 | 0.14%  |
| CharmHadMinBiasLambdaC2KPPi        | 1.47 Hz   | 19.5% | 2.16 | 0.81 Hz   | 552 | 0.03%  |
| CharmHadMinBiasD02KPi              | 2.48 Hz   | 33.5% | 1.91 | 1.57 Hz   | 495 | 0.05%  |
| CharmHadMinBiasD02KK               | 2.23 Hz   | 28.3% | 1.99 | 1.35 Hz   | 483 | 0.04%  |



## HltCorrelations &lt; LHCb &lt; TWiki

|                                   |           |       |      |           |     |       |
|-----------------------------------|-----------|-------|------|-----------|-----|-------|
| CharmHadMinBiasDplus2hhh          | 2.23 Hz   | 37.2% | 1.91 | 1.45 Hz   | 536 | 0.05% |
| CharmHadMinBiasLambdaC2LambdaPi   | 0.01 Hz   | 50%   | 2    | 0 Hz      | 617 | 0%    |
| TFBc2JpsiMuX                      | 0.57 Hz   | 22.7% | 3.52 | 0.26 Hz   | 445 | 0.01% |
| TFBc2JpsiMuXSignal                | 0.35 Hz   | 0%    | 4.63 | 0.09 Hz   | 432 | 0%    |
| diPhotonDiMuon                    | 7.54 Hz   | 98.4% | 1.02 | 7.48 Hz   | 7   | 0%    |
| LowMultMuon                       | 5.89 Hz   | 99%   | 1.01 | 5.86 Hz   | 5   | 0%    |
| LowMultHadron                     | 16.39 Hz  | 77%   | 1.34 | 14.25 Hz  | 6   | 0.01% |
| LowMultHadron_nofilter            | 0.43 Hz   | 59.6% | 1.52 | 0.34 Hz   | 7   | 0%    |
| LowMultPhoton                     | 0.4 Hz    | 99.7% | 1.01 | 0.4 Hz    | 6   | 0%    |
| LowMultElectron                   | 0.49 Hz   | 93.3% | 1.07 | 0.47 Hz   | 7   | 0%    |
| LowMultElectron_nofilter          | 0.16 Hz   | 83.7% | 1.16 | 0.15 Hz   | 8   | 0%    |
| CharmHadD02HHXDst_hhX             | 642.18 Hz | 48.8% | 2.28 | 429.11 Hz | 363 | 9.46% |
| CharmHadD02HHXDst_hhXWideMass     | 80.22 Hz  | 35%   | 2.48 | 47.54 Hz  | 366 | 1.05% |
| DisplVerticesSingleLoosePS        | 1.82 Hz   | 83.8% | 1.38 | 1.64 Hz   | 442 | 0.04% |
| DisplVerticesSingle               | 2.72 Hz   | 41.8% | 2.73 | 1.66 Hz   | 570 | 0.06% |
| DisplVerticesSingleHighFD         | 5.08 Hz   | 13.1% | 4.24 | 1.87 Hz   | 401 | 0.05% |
| DisplVerticesSingleDown           | 11.25 Hz  | 69.8% | 1.83 | 9.01 Hz   | 570 | 0.31% |
| DisplVerticesSingleVeryHighFD     | 2.07 Hz   | 32%   | 3.13 | 1.1 Hz    | 465 | 0.03% |
| DisplVerticesSingleHighMass       | 2.81 Hz   | 45.8% | 2.47 | 1.82 Hz   | 495 | 0.05% |
| DisplVerticesSinglePS             | 0.37 Hz   | 26.4% | 3.54 | 0.18 Hz   | 421 | 0%    |
| DisplVerticesDouble               | 1.53 Hz   | 50.2% | 2.45 | 1.02 Hz   | 577 | 0.04% |
| DisplVerticesDoublePS             | 0.02 Hz   | 26.9% | 2.94 | 0.01 Hz   | 578 | 0%    |
| CharmSemilep3bodyD2PiMuMu         | 8.87 Hz   | 20.1% | 3.11 | 4.24 Hz   | 471 | 0.12% |
| CharmSemilep3bodyD2PiMuMuSS       | 3.37 Hz   | 28.4% | 2.96 | 1.8 Hz    | 506 | 0.06% |
| CharmSemilep3bodyD2KMuMu          | 9.64 Hz   | 19.4% | 3.07 | 4.6 Hz    | 464 | 0.13% |
| CharmSemilep3bodyD2KMuMuSS        | 4 Hz      | 31.3% | 2.9  | 2.21 Hz   | 489 | 0.07% |
| LambdaC_LambdaC2Lambda0LLPi       | 7.38 Hz   | 68%   | 1.45 | 6.08 Hz   | 429 | 0.16% |
| LambdaC_LambdaC2Lambda0LLK        | 7.04 Hz   | 65.7% | 1.5  | 5.7 Hz    | 426 | 0.15% |
| LambdaC_LambdaC2Lambda0DDPi       | 6.04 Hz   | 31.1% | 2.08 | 3.67 Hz   | 363 | 0.08% |
| LambdaC_LambdaC2Lambda0DDK        | 6.4 Hz    | 38%   | 1.93 | 4.18 Hz   | 360 | 0.09% |
| RadiativeTopoTrack                | 35.89 Hz  | 4.5%  | 4.13 | 12.35 Hz  | 359 | 0.27% |
| RadiativeTopoPhoton               | 150.94 Hz | 50.6% | 2.42 | 101.49 Hz | 360 | 2.22% |
| B2HHPi0_Merged                    | 5.72 Hz   | 62.5% | 2.08 | 4.29 Hz   | 421 | 0.11% |
| CharmHadD2HHH                     | 441.31 Hz | 36.9% | 2.6  | 259.87 Hz | 364 | 5.74% |
| CharmHadD2HHHWideMass             | 48.21 Hz  | 3.7%  | 3.41 | 18.15 Hz  | 364 | 0.4%  |
| CharmHadD02HHHHDst_4pi            | 17.2 Hz   | 16.3% | 4.01 | 6.97 Hz   | 401 | 0.17% |
| CharmHadD02HHHHDst_4piWideMass    | 3.86 Hz   | 11.7% | 4.2  | 1.41 Hz   | 399 | 0.03% |
| CharmHadD02HHHH_4pi               | 9.79 Hz   | 28.6% | 3.19 | 5.02 Hz   | 396 | 0.12% |
| CharmHadD02HHHH_4piWideMass       | 10.77 Hz  | 31.7% | 2.99 | 5.82 Hz   | 395 | 0.14% |
| CharmHadD02HHHHDst_K3pi           | 37.92 Hz  | 12.9% | 4.21 | 14.02 Hz  | 382 | 0.33% |
| CharmHadD02HHHHDst_K3piWideMass   | 6 Hz      | 5.9%  | 4.57 | 1.88 Hz   | 387 | 0.04% |
| CharmHadD02HHHH_K3pi              | 19.51 Hz  | 24.2% | 3.36 | 9.34 Hz   | 381 | 0.22% |
| CharmHadD02HHHH_K3piWideMass      | 15.25 Hz  | 27.3% | 3.14 | 7.74 Hz   | 383 | 0.18% |
| CharmHadD02HHHHDst_KKpipi         | 14.81 Hz  | 6.9%  | 5.01 | 4.39 Hz   | 377 | 0.1%  |
| CharmHadD02HHHHDst_KKpipiWideMass | 3.22 Hz   | 3.3%  | 5.2  | 0.86 Hz   | 377 | 0.02% |
| CharmHadD02HHHH_KKpipi            | 7.53 Hz   | 21.1% | 3.7  | 3.35 Hz   | 374 | 0.08% |
| CharmHadD02HHHH_KKpipiWideMass    | 8.16 Hz   | 23.4% | 3.43 | 3.85 Hz   | 378 | 0.09% |

|                                  |          |       |      |         |     |       |
|----------------------------------|----------|-------|------|---------|-----|-------|
| CharmHadD02HHHHDst_2K2pi         | 11.86 Hz | 7%    | 5.16 | 3.43 Hz | 379 | 0.08% |
| CharmHadD02HHHHDst_2K2piWideMass | 2.85 Hz  | 4.6%  | 5.3  | 0.76 Hz | 378 | 0.02% |
| CharmHadD02HHHH_2K2pi            | 6.21 Hz  | 19.3% | 3.87 | 2.65 Hz | 377 | 0.06% |
| CharmHadD02HHHH_2K2piWideMass    | 7.22 Hz  | 22.1% | 3.54 | 3.3 Hz  | 376 | 0.08% |
| CharmHadD02HHHHDst_3Kpi          | 3.58 Hz  | 10.4% | 5.01 | 1.16 Hz | 375 | 0.03% |
| CharmHadD02HHHHDst_3KpiWideMass  | 1.24 Hz  | 4%    | 5.62 | 0.32 Hz | 378 | 0.01% |
| CharmHadD02HHHH_3Kpi             | 1.78 Hz  | 22.4% | 3.91 | 0.79 Hz | 370 | 0.02% |
| CharmHadD02HHHH_3KpiWideMass     | 3.16 Hz  | 22.6% | 3.7  | 1.44 Hz | 373 | 0.03% |
| CharmSemilepD02PiPiMuMu          | 6.96 Hz  | 33.7% | 2.58 | 4.04 Hz | 463 | 0.11% |
| CharmSemilepD02KKMuMu            | 6.19 Hz  | 39.8% | 2.27 | 3.93 Hz | 452 | 0.11% |
| CharmSemilepD02KPiMuMu           | 10.8 Hz  | 38.7% | 2.37 | 6.71 Hz | 458 | 0.19% |
| ErrorEvent                       | 17.68 Hz | 0%    | 3.14 | 6.6 Hz  | 500 | 0.2%  |

## Hlt2 versus All Hlt2 Lines correlation table

The cell in row X and column Y contains the fraction of events taken by line X that are also taken by Y, i.e.  $P(Y|X)$ . **Warning: this is not the usual definition.** All events have passed Hlt2.

| Lines                   | Muon  | CharmMuon | CharmHad | Topo  | Electron | Gamma | Electron |
|-------------------------|-------|-----------|----------|-------|----------|-------|----------|
| Global                  | 36.4% | 3.4%      | 36.6%    | 28.8% | 5.3%     | 3.7%  | 3.1%     |
| DiMuonJPsi              | 100%  | 0.6%      | 1.4%     | 3.1%  | 0.2%     | 0.1%  | 0.1%     |
| DiMuonJPsiHighPT        | 100%  | 0.6%      | 1.6%     | 4.8%  | 0.2%     | 0.1%  | 0.1%     |
| DiMuonPsi2S             | 100%  | 0.7%      | 2%       | 3.5%  | 0.2%     | 0.1%  | 0.2%     |
| DiMuonPsi2SHighPT       | 100%  | 0.9%      | 2.3%     | 5%    | 0.4%     | 0.1%  | 0.2%     |
| DiMuonB                 | 100%  | 0.7%      | 1.9%     | 2.9%  | 0.3%     | 0.1%  | 0.2%     |
| DiMuonZ                 | 91.1% | 0.7%      | 1.5%     | 2.2%  |          |       |          |
| DiMuonDY1               | 22.7% | 0.7%      | 1.4%     | 2.4%  | 0.2%     | 0.1%  | 0.2%     |
| DiMuonDY2               | 89.8% | 1%        | 2%       | 3.5%  | 0.3%     | 0.2%  | 0.3%     |
| DiMuonDY3               | 90.3% | 1.2%      | 3.4%     | 6.6%  | 0.9%     | 0.3%  | 0.2%     |
| DiMuonDY4               | 90.9% | 1.5%      | 2.2%     | 6%    | 0.9%     | 0.4%  |          |
| DiMuonDetached          | 100%  | 9.4%      | 5.8%     | 16.5% | 0.9%     | 0.4%  | 0.4%     |
| DiMuonDetachedHeavy     | 100%  | 1.6%      | 3.1%     | 13.1% | 0.5%     | 0.2%  | 0.3%     |
| DiMuonDetachedJPsi      | 100%  | 1.4%      | 2.9%     | 13.5% | 0.4%     | 0.2%  | 0.3%     |
| DiMuonDetachedPsi2S     | 100%  | 1.6%      | 3%       | 8.5%  | 0.4%     | 0.1%  | 0.3%     |
| TriMuonDetached         | 100%  | 13.5%     | 15.5%    | 47.8% | 3.4%     | 1.5%  | 1%       |
| DoubleDiMuon            | 100%  | 1.6%      | 2.3%     | 4.5%  | 0.7%     | 0.2%  | 0.3%     |
| DiMuonAndMuon           | 100%  | 5.2%      | 8%       | 34.7% | 1.8%     | 0.8%  | 0.7%     |
| TriMuonTau              | 100%  | 16.1%     | 2.6%     | 26.8% | 1.6%     | 0.2%  | 0.7%     |
| DiMuonAndD0             | 100%  | 5%        | 22.8%    | 12.9% | 1%       | 0.3%  | 0.3%     |
| DiMuonAndDp             | 100%  | 5.6%      | 30.9%    | 18.2% | 2.2%     | 0.9%  | 1.1%     |
| DiMuonAndDs             | 100%  | 5.8%      | 28.7%    | 17.4% | 2.8%     | 0.6%  | 5.5%     |
| DiMuonAndLc             | 100%  | 4.7%      | 21.6%    | 14.5% | 1.8%     | 0.9%  | 1.4%     |
| SingleTFElectron        | 2.7%  | 0.3%      | 6.3%     | 11%   | 16%      | 2.2%  | 0.4%     |
| SingleElectronTFLowPt   | 1.9%  | 0.4%      | 5.5%     | 7.6%  | 10.8%    | 2.1%  | 0.4%     |
| SingleElectronTFHighPt  | 0.8%  |           | 2%       | 2.9%  | 4.7%     | 0.8%  | 0.1%     |
| SingleTFVHighPtElectron | 1%    | 0.1%      | 2.1%     | 2.9%  | 5.6%     | 0.6%  | 0.1%     |
| DiElectronHighMass      |       |           | 1.7%     |       | 100%     |       |          |
| DiElectronB             | 1.6%  | 0.3%      | 5.1%     | 5.3%  | 100%     | 1.3%  | 0.3%     |
| B2HHLTUnbiasedDetached  | 9.9%  | 1%        | 15.5%    | 25%   | 4.9%     | 1.6%  | 10%      |
| Topo2BodyBBDT           | 31.5% | 1.1%      | 15.4%    | 100%  | 10.9%    | 2.7%  | 1.4%     |

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|                                |       |      |       |       |       |       |      |
|--------------------------------|-------|------|-------|-------|-------|-------|------|
| Topo3BodyBBDT                  | 30%   | 1.8% | 27.7% | 100%  | 11.9% | 3.1%  | 1.5% |
| Topo4BodyBBDT                  | 29.9% | 2.5% | 36.3% | 100%  | 13.8% | 3.8%  | 1.8% |
| TopoMu2BodyBBDT                | 100%  | 4.7% | 14.2% | 61.9% | 4.1%  | 1.2%  | 0.8% |
| TopoMu3BodyBBDT                | 100%  | 6.3% | 21.6% | 67.5% | 6%    | 1.6%  | 1.2% |
| TopoMu4BodyBBDT                | 100%  | 7.7% | 31.4% | 74.3% | 8.3%  | 2.4%  | 1.5% |
| TopoE2BodyBBDT                 | 12.6% | 0.8% | 25.3% | 60.9% | 100%  | 9.8%  | 1.4% |
| TopoE3BodyBBDT                 | 16%   | 1%   | 33.3% | 69.5% | 100%  | 11.4% | 1.9% |
| TopoE4BodyBBDT                 | 18.7% | 1.4% | 41.1% | 76.9% | 100%  | 13.3% | 2.2% |
| IncPhi                         | 5.3%  | 0.9% | 21.6% | 12.7% | 2.7%  | 1.8%  | 10%  |
| IncPhiSidebands                | 5.1%  | 1%   | 20.5% | 12.2% | 2.4%  | 1.8%  | 10%  |
| CharmHadD02HHKsLL              | 3.4%  | 0.7% | 100%  | 9.1%  | 2%    | 2%    | 0.5% |
| CharmHadD02HHKsDD              | 3.5%  | 1.2% | 100%  | 8.1%  | 1.7%  | 1.6%  | 1%   |
| Dst2PiD02PiPi                  | 5.4%  | 1.5% | 100%  | 8.9%  | 1.5%  | 0.5%  | 0.5% |
| Dst2PiD02MuMu                  | 47%   | 100% | 23.7% | 11.8% | 0.9%  | 0.3%  | 0.4% |
| Dst2PiD02KMu                   | 21.6% | 100% | 31.6% | 8.5%  | 0.9%  | 0.4%  | 0.4% |
| Dst2PiD02KPi                   | 5.2%  | 1.6% | 100%  | 10.5% | 2%    | 0.9%  | 0.4% |
| PassThrough                    | 2.5%  | 0.2% | 2.3%  | 1.8%  | 0.3%  | 0.3%  | 0.3% |
| Transparent                    | 0.1%  | 0%   | 0.5%  | 0.1%  | 0%    | 0%    | 0%   |
| Lumi                           | 25.6% | 2.4% | 25.6% | 19.4% | 3.3%  | 3.3%  | 1.5% |
| Forward                        | 3.3%  | 0.4% | 3.6%  | 2.8%  | 0.3%  | 0.2%  | 0.1% |
| DebugEvent                     | 0.7%  |      | 2.1%  | 2.8%  | 0.7%  | 0.7%  |      |
| CharmHadD2KS0KS0               | 15.4% | 3.8% | 100%  | 26.9% | 3.8%  |       |      |
| CharmHadD2KS0KS0WideMass       | 20%   |      | 100%  | 20%   |       |       |      |
| CharmHadD02HH\_D02PiPi         | 14.9% | 1.7% | 100%  | 34.9% | 7%    | 1.7%  | 0.7% |
| CharmHadD02HH\_D02PiPiWideMass | 11%   | 1.4% | 100%  | 27.5% | 5.3%  | 1.5%  | 0.5% |
| CharmHadD02HH\_D02KK           | 11.6% | 2.8% | 100%  | 25.6% | 5.5%  | 2.9%  | 0.5% |
| CharmHadD02HH\_D02KKWideMass   | 9.8%  | 2.2% | 100%  | 23.4% | 4.9%  | 2.3%  | 0.4% |
| CharmHadD02HH\_D02KPi          | 9.3%  | 1.7% | 100%  | 25.3% | 5%    | 2%    | 0.4% |
| CharmHadD02HH\_D02KPiWideMass  | 10.9% | 1.9% | 100%  | 26.6% | 5.5%  | 2.2%  | 0.5% |
| ExpressJPsi                    | 73.5% | 0.4% | 1.1%  | 3.7%  | 0.1%  | 0.1%  | 0.1% |
| ExpressLambda                  | 2.5%  | 0.3% | 3.4%  | 2.7%  | 0.4%  | 0.4%  | 0.3% |
| ExpressKS                      | 3.7%  | 0.3% | 4.1%  | 3.6%  | 0.5%  | 0.8%  | 0.2% |
| ExpressDs2PhiPi                | 7.1%  | 2%   | 80.3% | 21.3% | 4%    | 2.1%  | 21%  |
| ExpressBeamHalo                | 2.4%  | 0.3% | 2.8%  | 2.4%  | 0.4%  | 0.3%  | 0.2% |
| ExpressDStar2D0Pi              | 7.9%  | 1.6% | 77.3% | 27.3% | 4.7%  | 1.5%  | 0.3% |
| ExpressD02KPi                  | 7.4%  | 1.5% | 57.9% | 17.2% | 3.3%  | 1.4%  | 0.4% |
| CharmHadLambdaC2KPPi           | 12.2% | 2.4% | 100%  | 34.3% | 7.6%  | 3.9%  | 4.9% |
| CharmHadLambdaC2KPPiWideMass   | 12.1% | 2.5% | 100%  | 33.2% | 7.3%  | 3.6%  | 4.7% |
| CharmHadLambdaC2KPK            | 11.5% | 2.4% | 100%  | 28.1% | 7.1%  | 3.7%  | 4.3% |
| CharmHadLambdaC2KPKWideMass    | 11.4% | 2.5% | 100%  | 27.2% | 6.7%  | 3.6%  | 4.6% |
| CharmHadLambdaC2PiPPi          | 13.9% | 2.8% | 100%  | 40.1% | 8.6%  | 4.1%  | 6%   |
| CharmHadLambdaC2PiPPiWideMass  | 13.3% | 2.6% | 100%  | 38.6% | 8%    | 3.8%  | 6%   |
| CharmHadLambdaC2PiPK           | 12.5% | 2.5% | 100%  | 34%   | 7.7%  | 4%    | 5.4% |
| CharmHadLambdaC2PiPKWideMass   | 12%   | 2.5% | 100%  | 32.6% | 7.4%  | 4%    | 5.1% |
| Bs2PhiGamma                    | 4.7%  | 0.9% | 9%    | 13.4% | 10.7% | 100%  | 8.8% |
| Bs2PhiGammaWideBMass           | 5.5%  | 0.8% | 11.3% | 11.3% | 8.9%  | 100%  | 8.5% |
| Bd2KstGamma                    | 4.6%  | 0.7% | 6%    | 13.9% | 11.1% | 100%  | 6.7% |
| Bd2KstGammaWideKMass           | 4.5%  | 0.3% | 5%    | 14%   | 11%   | 100%  | 6.2% |
| Bd2KstGammaWideBMass           | 4.6%  | 0.8% | 7.8%  | 16.6% | 12.5% | 100%  | 6.1% |
| CharmHadD2KS0H\_D2KS0Pi        | 3%    | 0.1% | 100%  | 8.9%  | 1.4%  | 1.4%  | 0.2% |

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|                                     |       |      |       |       |      |      |      |
|-------------------------------------|-------|------|-------|-------|------|------|------|
| CharmHadD2KS0H\ D2KS0K              | 3.9%  | 0.2% | 100%  | 9.8%  | 1.5% | 1.5% | 0.2% |
| CharmHadD2KS0H\ D2KS0DDPi           | 2.6%  | 0.3% | 100%  | 4.8%  | 0.8% | 0.6% | 0.4% |
| CharmHadD2KS0H\ D2KS0DDK            | 2.9%  | 0.3% | 100%  | 4.9%  | 0.8% | 0.6% | 0.4% |
| DiPhi                               | 2.5%  | 0.3% | 4.3%  | 3.2%  | 0.7% | 0.4% | 10%  |
| CharmRareDecayD02MuMu               | 24.3% | 100% | 10%   | 7.7%  | 0.5% | 0.1% | 0.2% |
| B2HH                                | 10.3% | 0.5% | 4.9%  | 24.5% | 3.5% | 0.6% | 10%  |
| LowMultD2KPi                        |       |      |       |       |      |      |      |
| LowMultD2KPiPi                      | 0%    |      |       |       |      |      |      |
| LowMultD2K3Pi                       |       |      |       |       |      |      |      |
| LowMultChiC2HH                      |       |      |       |       |      |      |      |
| LowMultChiC2HHHH                    |       |      |       |       |      |      |      |
| LowMultD2KPiWS                      |       |      |       |       |      |      |      |
| LowMultD2KPiPiWS                    |       |      |       |       |      |      |      |
| LowMultD2K3PiWS                     |       |      |       |       |      |      |      |
| LowMultChiC2HHWS                    |       |      |       |       |      |      |      |
| LowMultChiC2HHHHWS                  |       |      |       |       |      |      |      |
| LowMultDDInc                        |       |      |       |       |      |      |      |
| SingleMuon                          | 100%  | 1.7% | 2.3%  | 7.3%  | 0.4% | 0.2% | 0.2% |
| SingleMuonHighPT                    | 27.7% | 1.1% | 4.2%  | 9.9%  | 1.6% | 0.6% | 0.2% |
| SingleMuonVHighPT                   | 29.7% | 0.8% | 3.7%  | 8.4%  | 2%   | 0.7% | 0.2% |
| SingleMuonLowPT                     | 100%  | 1%   | 2.9%  | 6%    | 0.6% | 0.4% | 0.2% |
| DiProton                            | 0.1%  | 0%   | 0.3%  | 0.4%  | 0.1% | 0%   | 10%  |
| DiProtonLowMult                     | 0%    |      |       |       |      |      |      |
| CharmSemilepD02HMuNu\ D02KMuNuWS    | 34.4% | 100% | 21.4% | 15.8% | 1.7% | 0.8% | 0.7% |
| CharmSemilepD02HMuNu\ D02PiMuNuWS   | 36.6% | 100% | 18.5% | 17.5% | 1.4% | 1%   | 0.5% |
| CharmSemilepD02HMuNu\ D02KMuNu      | 31.3% | 100% | 25.7% | 13%   | 1.4% | 0.8% | 0.5% |
| CharmSemilepD02HMuNu\ D02KMuNuTight | 35.8% | 100% | 35.1% | 15.7% | 1.8% | 1%   | 0.8% |
| CharmSemilepD02HMuNu\ D02PiMuNu     | 35.8% | 100% | 26.5% | 15.4% | 1.6% | 0.9% | 0.6% |
| CharmHadMinBiasLambdaC2KPPi         | 0.7%  | 0.1% | 100%  | 0.7%  | 0%   | 0.1% | 0.1% |
| CharmHadMinBiasD02KPi               | 0.4%  | 0.1% | 100%  | 0.3%  | 0.1% | 0%   | 0.1% |
| CharmHadMinBiasD02KK                | 0.5%  | 0.1% | 100%  | 0.3%  | 0.1% | 0%   | 0.1% |
| CharmHadMinBiasDplus2hhh            | 0.7%  | 0.1% | 100%  | 0.6%  | 0.1% | 0.1% | 0.1% |
| CharmHadMinBiasLambdaC2LambdaPi     |       |      | 100%  |       |      |      |      |
| TFBc2JpsiMuX                        | 100%  | 2.3% | 2.3%  | 7.6%  | 0.5% | 0.4% | 0.2% |
| TFBc2JpsiMuXSignal                  | 100%  | 2.1% | 1.9%  | 10.5% | 0.8% | 0.5% | 0.2% |
| diPhotonDiMuon                      | 0.6%  | 0%   |       |       |      |      |      |
| LowMultMuon                         | 0%    |      |       |       |      |      |      |
| LowMultHadron                       | 0%    |      |       |       |      |      |      |
| LowMultHadron\ nofilter             |       |      |       |       |      |      |      |
| LowMultPhoton                       |       |      |       |       |      |      |      |
| LowMultElectron                     |       |      |       |       |      |      |      |
| LowMultElectron\ nofilter           |       |      |       |       |      |      |      |
| CharmHadD02HHXDst\ hhX              | 9.1%  | 3.9% | 100%  | 20.3% | 5%   | 3%   | 1.2% |
| CharmHadD02HHXDst\ hhXWideMass      | 8.6%  | 2.5% | 100%  | 18.8% | 4.5% | 2.8% | 1.2% |
| DisplVerticesSingleLoosePS          | 6.1%  | 0.5% | 6.1%  | 7.2%  | 1.3% | 1.1% | 0.4% |
| DisplVerticesSingle                 | 14.9% | 1.4% | 14.9% | 29.3% | 4.7% | 1.8% | 0.8% |
| DisplVerticesSingleHighFD           | 23.3% | 2.7% | 32.7% | 65.7% | 11%  | 4.5% | 1.7% |
| DisplVerticesSingleDown             | 10%   | 0.7% | 8.9%  | 15.7% | 2.3% | 1%   | 0.5% |
| DisplVerticesSingleVeryHighFD       | 15.7% | 1.8% | 16.3% | 40.2% | 10%  | 3.9% | 1.1% |
| DisplVerticesSingleHighMass         | 13.8% | 0.9% | 17.3% | 24%   | 4.5% | 1.7% | 0.8% |

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|                                    |       |       |       |       |       |       |      |
|------------------------------------|-------|-------|-------|-------|-------|-------|------|
| DisplVerticesSinglePS              | 25%   | 2%    | 21.6% | 52.1% | 9.3%  | 4.1%  | 0.9% |
| DisplVerticesDouble                | 15.2% | 1%    | 12.7% | 26.1% | 4%    | 2%    | 0.8% |
| DisplVerticesDoublePS              | 13.5% |       | 11.5% | 23.1% | 3.8%  | 1.9%  |      |
| CharmSemilep3bodyD2PiMuMu          | 56.1% | 100%  | 12.1% | 18.2% | 1.3%  | 0.5%  | 0.6% |
| CharmSemilep3bodyD2PiMuMuSS        | 31.6% | 100%  | 11.7% | 23.8% | 1.8%  | 0.4%  | 0.7% |
| CharmSemilep3bodyD2KMuMu           | 55.6% | 100%  | 12.2% | 16.2% | 1.2%  | 0.5%  | 0.5% |
| CharmSemilep3bodyD2KMuMuSS         | 30.2% | 100%  | 17.4% | 21.4% | 1.7%  | 0.5%  | 0.7% |
| LambdaC\_\_LambdaC2Lambda0LLPi     | 1.4%  | 0.1%  | 100%  | 3.9%  | 0.6%  | 0.7%  | 0.2% |
| LambdaC\_\_LambdaC2Lambda0LLK      | 1.7%  | 0.1%  | 100%  | 4.5%  | 0.8%  | 0.8%  | 0.2% |
| LambdaC\_\_LambdaC2Lambda0DDPi     | 2.4%  | 0.3%  | 100%  | 4.7%  | 0.8%  | 0.6%  | 0.4% |
| LambdaC\_\_LambdaC2Lambda0DDK      | 2.6%  | 0.4%  | 100%  | 4.5%  | 0.8%  | 0.7%  | 0.4% |
| RadiativeTopoTrack                 | 10.6% | 1.2%  | 37.8% | 43.1% | 26.1% | 100%  | 1.5% |
| RadiativeTopoPhoton                | 6.1%  | 0.7%  | 25.3% | 21.1% | 15.4% | 100%  | 1.5% |
| B2HHPi0\_Merged                    | 6.5%  | 0.5%  | 10.3% | 19.8% | 13.6% | 14.4% | 10%  |
| CharmHadD2HHH                      | 8%    | 2.2%  | 100%  | 21.4% | 4.9%  | 2.6%  | 2%   |
| CharmHadD2HHHWideMass              | 8%    | 2.1%  | 100%  | 21.2% | 4.9%  | 2.6%  | 2%   |
| CharmHadD02HHHHDst\_4pi            | 8.1%  | 3.2%  | 100%  | 19.6% | 5.3%  | 3.5%  | 1.4% |
| CharmHadD02HHHHDst\_4piWideMass    | 7.6%  | 2.8%  | 100%  | 19.3% | 5%    | 3.4%  | 1.3% |
| CharmHadD02HHHH\_4pi               | 7.8%  | 2.7%  | 100%  | 18.1% | 4.6%  | 3%    | 1.5% |
| CharmHadD02HHHH\_4piWideMass       | 7.6%  | 2.7%  | 100%  | 17.9% | 4.4%  | 2.9%  | 1.3% |
| CharmHadD02HHHHDst\_K3pi           | 7.4%  | 2.5%  | 100%  | 19.1% | 5.6%  | 3.6%  | 1.4% |
| CharmHadD02HHHHDst\_K3piWideMass   | 7.2%  | 2.8%  | 100%  | 18.3% | 5.3%  | 3.5%  | 1.5% |
| CharmHadD02HHHH\_K3pi              | 7%    | 2.3%  | 100%  | 17.9% | 4.9%  | 3.2%  | 1.4% |
| CharmHadD02HHHH\_K3piWideMass      | 7%    | 2.3%  | 100%  | 16.9% | 4.6%  | 3%    | 1.5% |
| CharmHadD02HHHHDst\_KKpipi         | 7.7%  | 2.5%  | 100%  | 20.4% | 7.1%  | 4.3%  | 2.1% |
| CharmHadD02HHHHDst\_KKpipiWideMass | 7.5%  | 2.1%  | 100%  | 19.9% | 6%    | 3.9%  | 1.8% |
| CharmHadD02HHHH\_KKpipi            | 7.6%  | 2.2%  | 100%  | 19.3% | 6.1%  | 3.6%  | 2.2% |
| CharmHadD02HHHH\_KKpipiWideMass    | 6.9%  | 2.1%  | 100%  | 18.1% | 5.6%  | 3.6%  | 1.9% |
| CharmHadD02HHHHDst\_2K2pi          | 7.6%  | 2.4%  | 100%  | 20.3% | 6.6%  | 4.3%  | 2%   |
| CharmHadD02HHHHDst\_2K2piWideMass  | 7.3%  | 2.5%  | 100%  | 20%   | 6.1%  | 3.6%  | 1.7% |
| CharmHadD02HHHH\_2K2pi             | 7.6%  | 2.2%  | 100%  | 20%   | 6.4%  | 4%    | 2.2% |
| CharmHadD02HHHH\_2K2piWideMass     | 7%    | 2.2%  | 100%  | 18.3% | 5.7%  | 3.4%  | 2%   |
| CharmHadD02HHHHDst\_3Kpi           | 7.2%  | 1.9%  | 100%  | 18.7% | 7.4%  | 4.9%  | 3.4% |
| CharmHadD02HHHHDst\_3KpiWideMass   | 7.2%  | 2.6%  | 100%  | 20.4% | 7.1%  | 4.9%  | 2.2% |
| CharmHadD02HHHH\_3Kpi              | 6.9%  | 1.9%  | 100%  | 17.6% | 6.4%  | 4%    | 4.2% |
| CharmHadD02HHHH\_3KpiWideMass      | 6.5%  | 1.6%  | 100%  | 18.1% | 6.5%  | 3.6%  | 2.8% |
| CharmSemilepD02PiPiMuMu            | 32.4% | 100%  | 15.4% | 6.5%  | 0.7%  | 0.5%  | 0.4% |
| CharmSemilepD02KKMuMu              | 31.4% | 100%  | 12.9% | 5.1%  | 0.8%  | 0.5%  | 0.4% |
| CharmSemilepD02KPiMuMu             | 30.3% | 100%  | 15.5% | 5.7%  | 0.6%  | 0.6%  | 0.4% |
| ErrorEvent                         | 22.9% | 3%    | 1.5%  | 100%  | 8.9%  | 0.7%  | 2.3% |
| Unique                             | 61.4% | 45.7% | 49.6% | 33.2% | 20.7% | 50.7% | 70%  |

## Stripping streams correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Stripping.

| Lines         | Global | Charm | CharmToBeSwum | CharmCompleteEvent | Bhadron | BhadronComp |
|---------------|--------|-------|---------------|--------------------|---------|-------------|
| Charm         | 45.2%  | #     | 57.5%         | 44.9%              | 22.4%   | 24.6%       |
| CharmToBeSwum | 6.3%   | 8%    | #             | 28.1%              | 2.4%    | 4.2%        |



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|                             |       |      |       |       |       |       |
|-----------------------------|-------|------|-------|-------|-------|-------|
| <b>CharmCompleteEvent</b>   | 3.6%  | 3.6% | 16.2% | #     | 1.7%  | 2.2%  |
| <b>Bhadron</b>              | 14.7% | 7.3% | 5.7%  | 6.9%  | #     | 44.4% |
| <b>BhadronCompleteEvent</b> | 6.1%  | 3.3% | 4%    | 3.6%  | 18.2% | #     |
| <b>Leptonic</b>             | 21.8% | 3.6% | 1.2%  | 2.9%  | 5.8%  | 7.7%  |
| <b>Dimuon</b>               | 6.9%  | 1.5% | 0.4%  | 1.3%  | 3.9%  | 6.7%  |
| <b>Semileptonic</b>         | 3.2%  | 2%   | 1.5%  | 1.6%  | 4.5%  | 6.2%  |
| <b>Radiative</b>            | 1%    | 0.5% | 0.3%  | 0.5%  | 1.1%  | 1.4%  |
| <b>EW</b>                   | 6.4%  | 1.1% | 0.6%  | 6.1%  | 1.9%  | 2.6%  |
| <b>PID</b>                  | 11.8% | 6.1% | 16.5% | 6.9%  | 6.3%  | 8.6%  |
| <b>Calibration</b>          | 3.1%  | 1.2% | 0.7%  | 1.5%  | 1.4%  | 1.5%  |
| <b>MiniBias</b>             | 0.1%  | 0%   |       | 0.2%  | 0%    |       |
| <b>Unique</b>               | 76.6% | 72%  | 28.2% | 32.1% | 52.2% | 32%   |
| Rate [Hz]                   | 1254  | 567  | 79    | 46    | 185   | 76    |

### Stripping versus Hlt2 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Hlt2.

| Lines                       | Global | Muon  | CharmMuon | CharmHad | Topo  | Electron | Gamma | Exclusive | EW    |
|-----------------------------|--------|-------|-----------|----------|-------|----------|-------|-----------|-------|
| <b>Global</b>               | 28.6%  | 31.3% | 32.8%     | 34.6%    | 29.2% | 28.5%    | 19.6% | 28.9%     | 37.4% |
| <b>Charm</b>                | 12.9%  | 7.4%  | 23%       | 24.8%    | 12.7% | 11.6%    | 9.7%  | 18.8%     | 5.1%  |
| <b>CharmToBeSwum</b>        | 1.8%   | 0.4%  | 0.3%      | 4.7%     | 1.5%  | 1.6%     | 1%    | 0.4%      | 0.2%  |
| <b>CharmCompleteEvent</b>   | 1%     | 0.4%  | 1.7%      | 1.8%     | 0.8%  | 0.8%     | 0.7%  | 1.5%      | 0.3%  |
| <b>Bhadron</b>              | 4.2%   | 4.3%  | 3.1%      | 4.4%     | 10.2% | 10.3%    | 4.8%  | 6.2%      | 2.7%  |
| <b>BhadronCompleteEvent</b> | 1.7%   | 1.9%  | 1.4%      | 1.9%     | 4.5%  | 4.5%     | 2.1%  | 2.7%      | 1.4%  |
| <b>Leptonic</b>             | 6.2%   | 15.5% | 3.4%      | 1.1%     | 2.3%  | 2.5%     | 1%    | 1.2%      | 15.9% |
| <b>Dimuon</b>               | 2%     | 4.9%  | 2.8%      | 0.4%     | 1.2%  | 0.5%     | 0.2%  | 1.1%      | 4.5%  |
| <b>Semileptonic</b>         | 0.9%   | 2.1%  | 1.8%      | 0.8%     | 1.8%  | 0.6%     | 0.3%  | 2%        | 0.7%  |
| <b>Radiative</b>            | 0.3%   | 0.2%  | 0.2%      | 0.3%     | 0.5%  | 1.1%     | 1.3%  | 0.4%      | 0.3%  |
| <b>EW</b>                   | 1.8%   | 0.9%  | 0.6%      | 0.5%     | 1%    | 1.9%     | 0.8%  | 0.4%      | 18.3% |
| <b>PID</b>                  | 3.4%   | 4.3%  | 3.3%      | 3.6%     | 4%    | 3.2%     | 2.3%  | 2.2%      | 2.4%  |
| <b>Calibration</b>          | 0.9%   | 0.9%  | 0.7%      | 1.1%     | 0.9%  | 1.2%     | 1.1%  | 0.6%      | 1.5%  |
| <b>MiniBias</b>             | 0%     |       |           | 0%       | 0%    |          |       |           | 0%    |
| <b>Unique</b>               | 21.9%  | 22.4% | 25.5%     | 26.3%    | 20.4% | 20.3%    | 15.2% | 22.6%     | 26.6% |

### Hlt2 versus Stripping correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Stripping.

| Lines            | Global | Charm | CharmToBeSwum | CharmCompleteEvent | Bhadron | BhadronCompleteEvent |
|------------------|--------|-------|---------------|--------------------|---------|----------------------|
| <b>Global</b>    | 100%   | 100%  | 100%          | 100%               | 100%    | 100%                 |
| <b>Muon</b>      | 39.9%  | 20.9% | 7.1%          | 14.5%              | 36.9%   | 40.1%                |
| <b>CharmMuon</b> | 3.9%   | 6.1%  | 0.6%          | 5.6%               | 2.6%    | 2.8%                 |
| <b>CharmHad</b>  | 44.2%  | 70.2% | 94.8%         | 62%                | 38.4%   | 40.9%                |
| <b>Topo</b>      | 29.4%  | 28.2% | 24.6%         | 21.9%              | 69.9%   | 74.5%                |
| <b>Electron</b>  | 5.3%   | 4.8%  | 4.7%          | 4.2%               | 12.9%   | 13.7%                |
| <b>Gamma</b>     | 2.5%   | 2.7%  | 2.1%          | 2.6%               | 4.2%    | 4.4%                 |
| <b>Exclusive</b> | 3.1%   | 4.5%  | 0.7%          | 4.5%               | 4.6%    | 4.8%                 |
| <b>EW</b>        | 2.3%   | 0.7%  | 0.2%          | 0.5%               | 1.1%    | 1.4%                 |

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|           |       |       |       |       |       |       |    |
|-----------|-------|-------|-------|-------|-------|-------|----|
| DisplV    | 0.7%  | 0.6%  | 0.3%  | 0.5%  | 1.1%  | 1.5%  | 0% |
| LoMu      | 3.1%  | 0.2%  |       |       | 0%    |       | 0% |
| Technical | 3.8%  | 2.5%  | 3.2%  | 20.5% | 1.6%  | 1.9%  | 5% |
| Unique    | 71.2% | 69.6% | 70.7% | 73.1% | 47.7% | 41.7% | 8% |

### Stripping versus Hlt1 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed Hlt2.

| Lines                | Global | TrackAllL0 | TrackMuon | DiMuonHighMass | DiMuonLowMass | SingleMuon |
|----------------------|--------|------------|-----------|----------------|---------------|------------|
| Global               | 28.6%  | 27.9%      | 23.5%     | 68.1%          | 43.8%         | 32.1%      |
| Charm                | 12.9%  | 15.4%      | 8.5%      | 6%             | 12.6%         | 7.8%       |
| CharmToBeSwum        | 1.8%   | 2.3%       | 0.3%      | 0.2%           | 0.4%          | 0.4%       |
| CharmCompleteEvent   | 1%     | 1%         | 0.5%      | 0.4%           | 1.1%          | 0.5%       |
| Bhadron              | 4.2%   | 5.1%       | 3.7%      | 2.8%           | 5.6%          | 2.9%       |
| BhadronCompleteEvent | 1.7%   | 2.1%       | 1.7%      | 1.5%           | 2.8%          | 1.4%       |
| Leptonic             | 6.2%   | 3%         | 5.9%      | 58.7%          | 20.3%         | 17.2%      |
| Dimuon               | 2%     | 1.1%       | 2.8%      | 19.9%          | 11.8%         | 4.9%       |
| Semileptonic         | 0.9%   | 1%         | 2.3%      | 1.6%           | 3.8%          | 1.7%       |
| Radiative            | 0.3%   | 0.3%       | 0.2%      | 0.2%           | 0.3%          | 0.1%       |
| EW                   | 1.8%   | 0.7%       | 0.8%      | 2.2%           | 1.8%          | 1%         |
| PID                  | 3.4%   | 3.7%       | 4.6%      | 5.1%           | 8%            | 3.4%       |
| Calibration          | 0.9%   | 1%         | 1.1%      | 0.8%           | 1.3%          | 0.8%       |
| MiniBias             | 0%     | 0%         | 0%        | 0%             | 0%            | 0%         |
| Unique               | 21.9%  | 21.2%      | 17.3%     | 44.3%          | 27.5%         | 24.4%      |

### Hlt1 versus Stripping correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed Stripping.

| Lines              | Global | Charm | CharmToBeSwum | CharmCompleteEvent | Bhadron | BhadronCompleteEvent |
|--------------------|--------|-------|---------------|--------------------|---------|----------------------|
| Global             | 100%   | 100%  | 100%          | 100%               | 100%    | 100%                 |
| TrackAllL0         | 74.3%  | 90.6% | 98.7%         | 75%                | 92.6%   | 93.8%                |
| TrackMuon          | 23.7%  | 19.1% | 4.8%          | 12.6%              | 25.5%   | 28.4%                |
| DiMuonHighMass     | 15.1%  | 2.9%  | 0.7%          | 2.2%               | 4.2%    | 5.5%                 |
| DiMuonLowMass      | 6.3%   | 4%    | 0.9%          | 4.1%               | 5.5%    | 6.7%                 |
| SingleMuonNoIP     | 0.3%   | 0.2%  | 0.1%          | 0.1%               | 0.2%    | 0.2%                 |
| SingleMuonHighPT   | 5.9%   | 1.9%  | 0.7%          | 1.5%               | 4.2%    | 6.2%                 |
| TrackPhoton        | 6.7%   | 7.2%  | 6.2%          | 6.6%               | 10.5%   | 10.7%                |
| SingleElectronNoIP | 1.1%   | 0.6%  | 0.4%          | 0.5%               | 1%      | 1.2%                 |
| NoVPassThrough     | 3.1%   | 0.2%  | 0%            |                    | 0%      |                      |
| DiProton           | 2.1%   | 2.8%  | 1.7%          | 1%                 | 2.4%    | 2.7%                 |
| Unique             | 69.3%  | 75.8% | 87.8%         | 62.9%              | 65.5%   | 62%                  |

### Stripping versus L0 correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e. P(X|Y). All events have passed Hlt2.



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| Lines                | Global | Hadron | Muon  | DiMuon | Photon | Electron | LoMu  |
|----------------------|--------|--------|-------|--------|--------|----------|-------|
| Global               | 28.6%  | 29%    | 28.2% | 40.4%  | 27%    | 26.7%    | 47.5% |
| Charm                | 12.9%  | 16.1%  | 9.9%  | 12.1%  | 13.7%  | 12.5%    | 0.3%  |
| CharmToBeSwum        | 1.8%   | 2.6%   | 1.1%  | 0.8%   | 1.8%   | 1.7%     |       |
| CharmCompleteEvent   | 1%     | 1.1%   | 0.6%  | 0.8%   | 1%     | 0.9%     |       |
| Bhadron              | 4.2%   | 5.2%   | 3.3%  | 5%     | 5.1%   | 5.7%     |       |
| BhadronCompleteEvent | 1.7%   | 2.2%   | 1.5%  | 2%     | 2%     | 2.3%     |       |
| Leptonic             | 6.2%   | 3.3%   | 10.4% | 19.2%  | 3.4%   | 3.5%     | 0.3%  |
| Dimuon               | 2%     | 0.9%   | 3.5%  | 6.5%   | 0.8%   | 0.7%     | 0.5%  |
| Semileptonic         | 0.9%   | 0.6%   | 1.5%  | 1.8%   | 0.5%   | 0.5%     |       |
| Radiative            | 0.3%   | 0.3%   | 0.2%  | 0.3%   | 0.7%   | 0.7%     |       |
| EW                   | 1.8%   | 1%     | 0.9%  | 1.8%   | 1.5%   | 2.1%     | 47%   |
| PID                  | 3.4%   | 3.1%   | 3.5%  | 5.4%   | 2.8%   | 2.9%     | 0%    |
| Calibration          | 0.9%   | 1%     | 0.9%  | 1.1%   | 1.4%   | 1.2%     | 0%    |
| MiniBias             | 0%     | 0%     | 0%    | 0%     | 0%     | 0%       |       |
| Unique               | 21.9%  | 22.3%  | 21.3% | 28%    | 20.8%  | 20.5%    | 47.1% |

### L0 versus Stripping correlation table

The cell in row X and column Y contains the fraction of events taken by line Y that are also taken by X, i.e.  $P(X|Y)$ . All events have passed Stripping.

| Lines    | Global | Charm | CharmToBeSwum | CharmCompleteEvent | Bhadron | BhadronCompleteEvent | Leptonic |
|----------|--------|-------|---------------|--------------------|---------|----------------------|----------|
| Global   | 100%   | 100%  | 100%          | 100%               | 100%    | 100%                 | 100%     |
| Hadron   | 49%    | 60.4% | 71.3%         | 52.1%              | 59.6%   | 61.3%                | 25.3%    |
| Muon     | 45%    | 34.9% | 26.9%         | 27.5%              | 35.2%   | 38.5%                | 76.1%    |
| DiMuon   | 28.1%  | 18.7% | 9%            | 15.6%              | 23.6%   | 23.2%                | 61.3%    |
| Photon   | 5.5%   | 6.2%  | 5.9%          | 5.6%               | 7.1%    | 6.8%                 | 3.2%     |
| Electron | 15%    | 15.6% | 15%           | 14.1%              | 21.9%   | 21.3%                | 9%       |
| LoMu     | 0.6%   | 0%    |               |                    |         |                      | 0%       |
| Unique   | 60.9%  | 71.4% | 76.8%         | 60.7%              | 63.9%   | 61.6%                | 43.7%    |

### Stripping versus allHlt2 correlation table

The cell in row X and column Y contains the fraction of events taken by line X that are also taken by Y, i.e.  $P(Y|X)$ . **Warning: this is not the usual definition.** All events have passed Hlt2.

| Lines               | Global | Charm | CharmToBeSwum | CharmCompleteEvent | Bhadron |
|---------------------|--------|-------|---------------|--------------------|---------|
| Global              | 28.6%  | 12.9% | 1.8%          | 1%                 | 4.2%    |
| DiMuon,JPsi         | 52.3%  | 5.2%  | 0.1%          | 0.3%               | 2.2%    |
| DiMuon,JPsiHighPT   | 78%    | 4.7%  | 0.1%          | 0.2%               | 2.5%    |
| DiMuonPsi2S         | 76.9%  | 6%    | 0.2%          | 0.3%               | 2%      |
| DiMuonPsi2SHighPT   | 67.5%  | 5.6%  | 0.2%          | 0.3%               | 2.5%    |
| DiMuonB             | 76%    | 5.4%  | 0.2%          | 0.3%               | 2.1%    |
| DiMuonZ             | 91.1%  | 18.5% |               |                    | 5.2%    |
| DiMuonDY1           | 44.6%  | 6.7%  | 0.2%          | 0.4%               | 2.5%    |
| DiMuonDY2           | 82.9%  | 5.6%  | 0.2%          | 0.5%               | 2.1%    |
| DiMuonDY3           | 94.2%  | 8.7%  | 0.3%          | 0.4%               | 3.5%    |
| DiMuonDY4           | 90.7%  | 14%   |               | 0.4%               | 5.6%    |
| DiMuonDetached      | 31.8%  | 9.3%  | 0.2%          | 0.7%               | 4.1%    |
| DiMuonDetachedHeavy | 61.8%  | 7.7%  | 0.2%          | 0.4%               | 5.3%    |

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|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| DiMuonDetachedJPsi             | 59.8% | 7.6%  | 0.2%  | 0.4%  | 5.7%  |
| DiMuonDetachedPsi2S            | 61.1% | 7.9%  | 0.2%  | 0.5%  | 3.9%  |
| TriMuonDetached                | 68.1% | 18.3% | 0.3%  | 1.5%  | 12.1% |
| DoubleDiMuon                   | 90.6% | 11.8% | 0.2%  | 0.8%  | 4.6%  |
| DiMuonAndMuon                  | 81%   | 12.5% | 0.4%  | 1.1%  | 12.1% |
| TriMuonTau                     | 28.7% | 14.1% | 0.2%  | 0.6%  | 3.6%  |
| DiMuonAndD0                    | 78.3% | 27.3% | 3.3%  | 2.6%  | 8.5%  |
| DiMuonAndDp                    | 81.4% | 37.4% | 0.3%  | 1.4%  | 9.8%  |
| DiMuonAndDs                    | 76.8% | 33.3% | 0.9%  | 2.8%  | 11.1% |
| DiMuonAndLc                    | 77%   | 22.9% | 0.6%  | 2.2%  | 9.9%  |
| SingleTFElectron               | 21.5% | 4.2%  | 0.5%  | 0.2%  | 2.8%  |
| SingleElectronTFLowPt          | 16.3% | 4.2%  | 0.9%  | 0.4%  | 2.8%  |
| SingleElectronTFHighPt         | 15.1% | 3.1%  | 0.4%  | 0.1%  | 1.3%  |
| SingleTFVHighPtElectron        | 42.1% | 3%    | 0.2%  | 0.2%  | 1.5%  |
| DiElectronHighMass             | 98.3% | 3.3%  | 1.7%  |       |       |
| DiElectronB                    | 68.9% | 5.1%  | 0.2%  | 0.1%  | 2.3%  |
| B2HHLTUnbiasedDetached         | 25.4% | 10.2% | 1.3%  | 0.6%  | 12.1% |
| Topo2BodyBBDT                  | 29.2% | 8.5%  | 1%    | 0.5%  | 13.1% |
| Topo3BodyBBDT                  | 32.6% | 13.8% | 2%    | 0.9%  | 12.1% |
| Topo4BodyBBDT                  | 35.7% | 17.3% | 2%    | 1.2%  | 13.1% |
| TopoMu2BodyBBDT                | 34.5% | 9.3%  | 0.4%  | 0.5%  | 11.1% |
| TopoMu3BodyBBDT                | 36.1% | 13.6% | 0.8%  | 0.7%  | 11.1% |
| TopoMu4BodyBBDT                | 40.8% | 18.7% | 1.2%  | 1.1%  | 13.1% |
| TopoE2BodyBBDT                 | 28.3% | 8.9%  | 1.7%  | 0.6%  | 11.1% |
| TopoE3BodyBBDT                 | 31.3% | 12.3% | 1.8%  | 0.9%  | 12.1% |
| TopoE4BodyBBDT                 | 35.4% | 15.8% | 1.9%  | 1.2%  | 13.1% |
| IncPhi                         | 22.7% | 13.5% | 0.4%  | 2.2%  | 5.2%  |
| IncPhiSidebands                | 21.9% | 12.5% | 0.4%  | 1.7%  | 5.3%  |
| CharmHadD02HHKsLL              | 18.9% | 9.4%  | 2.1%  | 1.7%  | 4.2%  |
| CharmHadD02HHKsDD              | 23.2% | 14.5% | 3.7%  | 3.2%  | 3.4%  |
| Dst2PiD02PiPi                  | 33.4% | 14.4% | 5.4%  | 11.7% | 4.2%  |
| Dst2PiD02MuMu                  | 59.4% | 18.6% | 0.2%  | 35.7% | 4.3%  |
| Dst2PiD02KMu                   | 43.5% | 26.6% | 0.3%  | 14.1% | 4%    |
| Dst2PiD02KPi                   | 46.7% | 32.1% | 8.5%  | 18.8% | 3.7%  |
| PassThrough                    | 6.7%  | 2.7%  | 0.3%  | 0.1%  | 1%    |
| Transparent                    | 12.1% | 0.8%  | 0%    | 6.9%  | 0.3%  |
| Lumi                           | 19.3% | 9.3%  | 1.3%  | 1.3%  | 3%    |
| Forward                        | 8.4%  | 3.5%  | 0.3%  | 0.3%  | 1.6%  |
| DebugEvent                     | 9%    | 2.8%  | 0.7%  | 0.7%  |       |
| CharmHadD2KS0KS0               | 46.2% | 42.3% |       |       | 3.8%  |
| CharmHadD2KS0KS0WideMass       | 60%   | 60%   |       |       |       |
| CharmHadD02HH\_D02PiPi         | 51.9% | 21.5% | 26.9% | 2.4%  | 8.4%  |
| CharmHadD02HH\_D02PiPiWideMass | 58%   | 39.7% | 21.5% | 3.5%  | 6.2%  |
| CharmHadD02HH\_D02KK           | 37.4% | 23.3% | 13.9% | 1.1%  | 5.5%  |
| CharmHadD02HH\_D02KKWideMass   | 44.2% | 30.5% | 14.8% | 2.1%  | 4.9%  |
| CharmHadD02HH\_D02KPi          | 56.9% | 42.8% | 18.1% | 3.3%  | 5.4%  |
| CharmHadD02HH\_D02KPiWideMass  | 50.6% | 35%   | 17.9% | 2.5%  | 5.6%  |
| ExpressJPsi                    | 65.6% | 4.4%  | 0.1%  | 0.2%  | 2.2%  |
| ExpressLambda                  | 36.4% | 4.9%  | 0.3%  | 0.3%  | 2.9%  |
| ExpressKS                      | 13.6% | 5.4%  | 0.4%  | 0.3%  | 2.9%  |

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|                                      |       |       |       |       |      |
|--------------------------------------|-------|-------|-------|-------|------|
| ExpressDs2PhiPi                      | 66.1% | 60.6% | 0.4%  | 4%    | 6.8% |
| ExpressBeamHalo                      | 7.3%  | 3%    | 0.2%  | 0.1%  | 0.9% |
| ExpressDStar2D0Pi                    | 75.1% | 50.1% | 41.1% | 6.9%  | 7.5% |
| ExpressD02KPi                        | 44.3% | 32%   | 10.5% | 2.4%  | 4.8% |
| CharmHadLambdaC2KPPi                 | 48.1% | 37%   | 1.2%  | 3.6%  | 9.2% |
| CharmHadLambdaC2KPPiWideMass         | 45.7% | 34.7% | 1.1%  | 3.1%  | 9%   |
| CharmHadLambdaC2KPK                  | 32.9% | 22%   | 0.8%  | 2.6%  | 7.6% |
| CharmHadLambdaC2KPKWideMass          | 32.5% | 22%   | 0.8%  | 2.6%  | 7.3% |
| CharmHadLambdaC2PiPPi                | 52.3% | 40.5% | 1.7%  | 3.2%  | 11%  |
| CharmHadLambdaC2PiPPiWideMass        | 50.9% | 39.2% | 1.6%  | 3.3%  | 10%  |
| CharmHadLambdaC2PiPK                 | 44.8% | 33.5% | 1%    | 3.5%  | 9.2% |
| CharmHadLambdaC2PiPKWideMass         | 42.9% | 31.9% | 1%    | 3.3%  | 8.5% |
| Bs2PhiGamma                          | 17.9% | 9%    | 0.5%  | 0.6%  | 3.8% |
| Bs2PhiGammaWideBMass                 | 18.8% | 7.2%  | 0.8%  | 0.4%  | 3%   |
| Bd2KstGamma                          | 15.8% | 6.2%  | 0.3%  | 0.4%  | 2.9% |
| Bd2KstGammaWideKMass                 | 15.7% | 4.7%  | 0.5%  | 0.3%  | 2.4% |
| Bd2KstGammaWideBMass                 | 18.6% | 7.5%  | 0.2%  | 0.6%  | 4.2% |
| CharmHadD2KS0H\ _D2KS0Pi             | 32.8% | 25.8% | 0.5%  | 0.4%  | 4.3% |
| CharmHadD2KS0H\ _D2KS0K              | 31.5% | 24.6% | 0.6%  | 0.6%  | 4.2% |
| CharmHadD2KS0H\ _D2KS0DDPi           | 48.3% | 44.5% | 0.8%  | 0.6%  | 2.8% |
| CharmHadD2KS0H\ _D2KS0DDK            | 45.4% | 41%   | 1%    | 0.7%  | 2.8% |
| DiPhi                                | 28.5% | 22.9% | 0.4%  | 0.5%  | 2.3% |
| CharmRareDecayD02MuMu                | 34.4% | 10.5% | 0.2%  | 13.1% | 4.1% |
| B2HH                                 | 29.7% | 8.9%  | 0.4%  | 0.5%  | 15%  |
| LowMultD2KPi                         | 92.2% | 1.6%  |       |       |      |
| LowMultD2KPiPi                       | 40.5% | 0.6%  |       |       |      |
| LowMultD2K3Pi                        | 43.4% | 0.4%  |       |       |      |
| LowMultChiC2HH                       | 62.3% | 1.1%  |       |       |      |
| LowMultChiC2HHHH                     | 45.6% | 2.2%  |       |       |      |
| LowMultD2KPiWS                       | 28.8% | 0.8%  |       |       |      |
| LowMultD2KPiPiWS                     | 31.5% | 0.4%  |       |       |      |
| LowMultD2K3PiWS                      | 33.1% | 0.3%  |       |       |      |
| LowMultChiC2HHWS                     | 53.7% |       |       |       |      |
| LowMultChiC2HHHHWS                   | 45.4% | 1.4%  |       |       |      |
| LowMultDDInc                         | 36.5% | 2.2%  |       |       |      |
| SingleMuon                           | 11.1% | 3.3%  | 0.1%  | 0.2%  | 1.3% |
| SingleMuonHighPT                     | 36.2% | 5.7%  | 0.2%  | 0.3%  | 3%   |
| SingleMuonVHighPT                    | 65.1% | 7.8%  | 0.2%  | 0.4%  | 3.2% |
| SingleMuonLowPT                      | 35.8% | 3.4%  | 0.2%  | 0.4%  | 1.4% |
| DiProton                             | 77.9% | 77.5% | 0%    | 0%    | 0.7% |
| DiProtonLowMult                      | 18.4% | 6.6%  |       |       | 0%   |
| CharmSemilepD02HMuNu\ _D02KMuNuWS    | 28.3% | 18.8% | 0.1%  | 0.5%  | 3.7% |
| CharmSemilepD02HMuNu\ _D02PiMuNuWS   | 29.6% | 19.7% | 0.3%  | 0.5%  | 4.1% |
| CharmSemilepD02HMuNu\ _D02KMuNu      | 28.9% | 21.2% | 0.3%  | 0.6%  | 2.5% |
| CharmSemilepD02HMuNu\ _D02KMuNuTight | 33.8% | 25.9% | 0.4%  | 0.7%  | 3.2% |
| CharmSemilepD02HMuNu\ _D02PiMuNu     | 31.5% | 23.2% | 0.3%  | 0.6%  | 3%   |
| CharmHadMinBiasLambdaC2KPPi          | 33.1% | 13.7% | 0.2%  | 19.2% | 3.2% |
| CharmHadMinBiasD02KPi                | 28.7% | 7.6%  | 0.3%  | 20.6% | 2%   |
| CharmHadMinBiasD02KK                 | 25.5% | 7.5%  | 0.2%  | 17.4% | 2.1% |
| CharmHadMinBiasDplus2hhh             | 30.5% | 11.9% | 0.3%  | 17.9% | 3%   |

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|                                     |       |       |      |       |      |
|-------------------------------------|-------|-------|------|-------|------|
| CharmHadMinBiasLambdaC2LambdaPi     | 50%   | 16.7% | 8.3% | 33.3% | 8.3% |
| TFBc2JpsiMuX                        | 88.1% | 8.2%  | 0.4% | 0.8%  | 4.7% |
| TFBc2JpsiMuXSignal                  | 95.8% | 8%    | 0.5% | 1%    | 5.6% |
| diPhotonDiMuon                      | 22%   | 0%    |      |       |      |
| LowMultMuon                         | 90.2% | 0%    |      |       |      |
| LowMultHadron                       | 59.1% | 1%    |      |       |      |
| LowMultHadron\ _nofilter            | 32.5% | 0.6%  |      |       |      |
| LowMultPhoton                       | 100%  |       |      |       |      |
| LowMultElectron                     | 58.9% |       |      |       |      |
| LowMultElectron\ _nofilter          | 19.2% |       |      |       |      |
| CharmHadD02HHXDst\ _hhX             | 28.4% | 18.9% | 3.1% | 1.7%  | 4.7% |
| CharmHadD02HHXDst\ _hhXWideMass     | 25.3% | 16.5% | 2.4% | 1.2%  | 4.2% |
| DisplVerticesSingleLoosePS          | 34%   | 7%    | 0.5% | 0.6%  | 2.3% |
| DisplVerticesSingle                 | 41.4% | 18.2% | 0.9% | 1.1%  | 11%  |
| DisplVerticesSingleHighFD           | 40.7% | 14.6% | 2.4% | 1%    | 12%  |
| DisplVerticesSingleDown             | 28%   | 13.3% | 0.7% | 0.9%  | 6.7% |
| DisplVerticesSingleVeryHighFD       | 33.9% | 13.6% | 1.4% | 0.9%  | 7%   |
| DisplVerticesSingleHighMass         | 34.2% | 15.3% | 0.8% | 1%    | 10%  |
| DisplVerticesSinglePS               | 60.6% | 14.1% | 1.4% | 0.7%  | 10%  |
| DisplVerticesDouble                 | 40.6% | 18.4% | 0.6% | 0.9%  | 10%  |
| DisplVerticesDoublePS               | 76.9% | 13.5% |      |       | 9.6% |
| CharmSemilep3bodyD2PiMuMu           | 31.9% | 19.9% | 0.2% | 1.3%  | 3.4% |
| CharmSemilep3bodyD2PiMuMuSS         | 31.6% | 20.9% | 0.3% | 0.8%  | 4.5% |
| CharmSemilep3bodyD2KMuMu            | 31.5% | 20.3% | 0.3% | 0.6%  | 3%   |
| CharmSemilep3bodyD2KMuMuSS          | 35.2% | 24.4% | 0.3% | 0.9%  | 4.2% |
| LambdaC\ _LambdaC2Lambda0LLPi       | 17.4% | 7.6%  | 0.2% | 0.3%  | 3.5% |
| LambdaC\ _LambdaC2Lambda0LLK        | 17.4% | 7.7%  | 0.2% | 0.3%  | 3.8% |
| LambdaC\ _LambdaC2Lambda0DDPi       | 22.4% | 15.9% | 0.7% | 0.6%  | 2.1% |
| LambdaC\ _LambdaC2Lambda0DDK        | 19.1% | 12.3% | 0.9% | 0.7%  | 2.3% |
| RadiativeTopoTrack                  | 27.2% | 12.7% | 1.6% | 0.9%  | 8.5% |
| RadiativeTopoPhoton                 | 19.6% | 9.7%  | 1%   | 0.7%  | 4.8% |
| B2HHPi0\ _Merged                    | 25.5% | 8.9%  | 0.6% | 0.6%  | 6.5% |
| CharmHadD2HHH                       | 46.2% | 38.9% | 1.6% | 2.4%  | 5%   |
| CharmHadD2HHHWideMass               | 44.5% | 36.9% | 1.7% | 2.3%  | 5%   |
| CharmHadD02HHHHDst\ _4pi            | 47.1% | 37.3% | 1.6% | 4.3%  | 9%   |
| CharmHadD02HHHHDst\ _4piWideMass    | 46.4% | 36%   | 1.7% | 4.7%  | 8.1% |
| CharmHadD02HHHH\ _4pi               | 39.3% | 29.8% | 1.1% | 2.2%  | 7.5% |
| CharmHadD02HHHH\ _4piWideMass       | 37.1% | 27.6% | 1.3% | 2.2%  | 6.5% |
| CharmHadD02HHHHDst\ _K3pi           | 46.3% | 36.3% | 1.2% | 7%    | 7.5% |
| CharmHadD02HHHHDst\ _K3piWideMass   | 42.8% | 32.9% | 1.3% | 5.8%  | 7.2% |
| CharmHadD02HHHH\ _K3pi              | 33%   | 23.5% | 0.8% | 2.9%  | 6.4% |
| CharmHadD02HHHH\ _K3piWideMass      | 31.7% | 22.5% | 0.8% | 2.5%  | 5.9% |
| CharmHadD02HHHHDst\ _KKpipi         | 41.9% | 31.4% | 1.2% | 4.5%  | 8.8% |
| CharmHadD02HHHHDst\ _KKpipiWideMass | 43.1% | 32.8% | 1.2% | 6.2%  | 7.6% |
| CharmHadD02HHHH\ _KKpipi            | 32%   | 21.4% | 0.8% | 2.3%  | 7.4% |
| CharmHadD02HHHH\ _KKpipiWideMass    | 31.5% | 21.5% | 0.7% | 2.7%  | 6.3% |
| CharmHadD02HHHHDst\ _2K2pi          | 43.2% | 32.8% | 1.2% | 5.5%  | 8.9% |
| CharmHadD02HHHHDst\ _2K2piWideMass  | 44.6% | 34.7% | 1.1% | 6.8%  | 7.9% |
| CharmHadD02HHHH\ _2K2pi             | 35.3% | 24.3% | 0.9% | 3.1%  | 7.5% |
| CharmHadD02HHHH\ _2K2piWideMass     | 32.9% | 22.5% | 0.8% | 2.8%  | 6.7% |

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|                                  |       |       |       |       |      |
|----------------------------------|-------|-------|-------|-------|------|
| CharmHadD02HHHHDst\ 3Kpi         | 37.9% | 27.5% | 1.2%  | 3.4%  | 8.8% |
| CharmHadD02HHHHDst\ 3KpiWideMass | 38.8% | 27.9% | 1.5%  | 4.3%  | 8.8% |
| CharmHadD02HHHH\ 3Kpi            | 30.7% | 20.6% | 1.1%  | 2.7%  | 7.1% |
| CharmHadD02HHHH\ 3KpiWideMass    | 31.3% | 20.4% | 0.7%  | 2.5%  | 7.2% |
| CharmSemilepD02PiPiMuMu          | 40.1% | 29.2% | 0.5%  | 1%    | 4%   |
| CharmSemilepD02KKMuMu            | 31.7% | 19.8% | 0.4%  | 0.7%  | 3.8% |
| CharmSemilepD02KPiMuMu           | 35.9% | 24.9% | 0.5%  | 1%    | 3.7% |
| ErrorEvent                       | 11.4% | 5.6%  | 0.2%  | 0.4%  | 2.3% |
| Unique                           | 49.3% | 44.7% | 35.8% | 48.2% | 31%  |

-- PatrickSKoppenburg - 27-Mar-2013

This topic: LHCb > HltCorrelations

Topic revision: r30 - 2013-12-04 - EricvanHerwijnen



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