

|      |   |                               |
|------|---|-------------------------------|
| max  | 1 | number of categories          |
| jmax | 1 | number of samples minus one   |
| kmax | * | number of nuisance parameters |

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shapes \* \* HH\_mX\_2\_HH\_LL\_13TeV.root vh/\$PROCESS vh/\$PROCESS\_\$SYSTEMATIC

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|             |             |
|-------------|-------------|
| bin         | vh4b        |
| observation | 3781.000000 |

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|         |                   |             |
|---------|-------------------|-------------|
| bin     | vh4b              | vh4b        |
| process | 0                 | 1           |
| process | Signal_mX_2_HH_LL | HH_LLEST    |
| rate    | 7.534828          | 3739.546861 |

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|                                   |               |       |
|-----------------------------------|---------------|-------|
| lumi_13TeV lnN                    | 1.025         | -     |
| CMS_eff_tau21_sf lnN              | 1.198/0.802   | -     |
| CMS_eff_Htag lnN                  | 1.021790      | -     |
| CMS_JEC lnN                       | 1.000444      | -     |
| CMS_eff_JMS lnN                   | 1.0133/0.9867 | -     |
| CMS_eff_JMR lnN                   | 1.2828/0.7172 | -     |
| CMS_eff_bbttag_sf lnN             | 1.061035      | -     |
| CMS_JER lnN                       | 1.000000      | -     |
| CMS_PU lnN                        | 1.010842      | -     |
| CMS_eff_trig shapeN2              | 1.000         | -     |
| CMS_scaleHH_LL_13TeV shapeN2      | -             | 1.000 |
| CMS_PDF_Scales lnN                | 1.001/1.003   | -     |
| CMS_PDF_HHgg lnN                  | 1.042/1.044   | -     |
| CMS_statHH_LL_13TeV_bin0 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin1 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin2 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin3 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin4 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin5 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin6 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin7 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin8 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin9 shapeN2  | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin10 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin11 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin12 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin13 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin14 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin15 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin16 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin17 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin18 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin19 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin20 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin21 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin22 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin23 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin24 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin25 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin26 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin27 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin28 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin29 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin30 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin31 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin32 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin33 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin34 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin35 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin36 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin37 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin38 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin39 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin40 shapeN2 | -             | 1.000 |
| CMS_statHH_LL_13TeV_bin41 shapeN2 | -             | 1.000 |