```
max      1       number of categories
jmax     2       number of samples minus one
kmax     *       number of nuisance parameters
----------------------------------------------------------------------------
shapes * * HH4b2p1_mX_2_NRv1_boost_dEta0_13TeV.root vh/$PROCESS vh/$PROCESS_$SYSTEMATIC
----------------------------------------------------------------------------
bin                                      vh4b
observation                              299.000000
----------------------------------------------------------------------------
bin                                      vh4b                vh4b          vh4b
process                                  0                   1             2
process             Signal_mX_2_NRv1_boost_dEta0   NRv1_boost_dEta0EST    ttbar
rate                                     3.951210            278.77        28.474647
----------------------------------------------------------------------------
lumi_13TeV lnN                           1.025               −             1.025
AK4_invariant_mass lnN                   1.005               −             1.005
CMS_eff_tau21_sf lnN                     1.136/0.864         −             1.136/0.864
CMS_eff_Htag lnN                         1.057057            −             −
CMS_JEC lnN                              1.011596            −             1.004789
CMS_massJEC lnN                          1.02                −             1.02
CMS_eff_bbtag_sf lnN                     1.043162            −             1.036740
CMS_eff_csv_sf lnN                       1.034955            −             1.066907
CMS_JER lnN                              1.007021            −             1.011820
CMS_PU lnN                               1.001153            −             1.002218
CMS_ptnorm lnN                           −                   −             1.015376
CMS_ptalpha lnN                          −                   −             1.043930
CMS_eff_trig shapeN2                     1.000               −             1.000
CMS_scaleNRv1_boost_dEta0_13TeV shapeN2  −                   1.000         −
CMS_PDF_Scales lnN                       1.01/0.99           −             −
CMS_PDF_HHgg lnN                         1.03                −             −
CMS_statNRv1_boost_dEta0_13TeV_bin0 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin1 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin2 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin3 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin4 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin5 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin6 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin7 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin8 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin9 shapeN2    −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin10 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin11 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin12 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin13 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin14 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin15 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin16 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin17 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin18 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin19 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin20 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin21 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin22 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin23 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin24 shapeN2   −     1.000   −
CMS_statNRv1_boost_dEta0_13TeV_bin25 shapeN2   −     1.000   −
```