

| EWK                            | Other                      | QCD              | ST                                      | WJets                 | ZJets                 | ttbar            | tx                   |
|--------------------------------|----------------------------|------------------|---|-----------------------|-----------------------|------------------|----------------------|
| VKWminus2Jets_WToQQ_dipoleReco | VHToNonbb_M125             | QCD_HT1000to1500 | ST_t-channel_antitop_4f_InclusiveDecays | WJetsToQQ_HT-200to400 | ZJetsToQQ_HT-200to400 | TTToHadronic     | TTWJetsToQQ          |
| WKWplus2Jets_WToQQ_dipoleReco  | WWTo1L1Nu2Q_4f             | QCD_HT100to200   | ST_t-channel_top_4f_InclusiveDecays     | WJetsToQQ_HT-400to600 | ZJetsToQQ_HT-400to600 | TTToSemiLeptonic | TTWW                 |
| EWKZ2Jets_ZToLL_M-50           | WWTo4Q_4f                  | QCD_HT1500to2000 | ST_tW_antitop_5f_inclusiveDecays        | WJetsToQQ_HT-600to800 | ZJetsToQQ_HT-600to800 |                  | TTWZ                 |
| EWKZ2Jets_ZToNuNu_M-50         | WWW_4F                     | QCD_HT2000toInf  | ST_tW_top_5f_inclusiveDecays            | WJetsToQQ_HT-800toInf | ZJetsToQQ_HT-800toInf |                  | TTbb_4f_TTToHadronic |
| EWKZ2Jets_ZToQQ_dipoleRecoilOr | WWZ_4F                     | QCD_HT200to300   |   |                       |                       |                  | ttHToNonbb_M125      |
| WZJJ_EWK_InclusivePolarization | WZTo1L1Nu2Q_4f             | QCD_HT300to500   |   |                       |                       |                  | ttHTobb_M125         |
|                                | WZTo2Q2L_mllmin4p0         | QCD_HT500to700   |   |                       |                       |                  |                      |
|                                | WZZ                        | QCD_HT50to100    |   |                       |                       |                  |                      |
|                                | WminusH_HToBB_WToLNu_M-125 | QCD_HT700to1000  |   |                       |                       |                  |                      |
|                                | WplusH_HToBB_WToLNu_M-125  |                  |   |                       |                       |                  |                      |
|                                | ZH_HToBB_ZToQQ_M-125       |                  |   |                       |                       |                  |                      |
|                                | ZZTo2Nu2Q_5f               |                  |   |                       |                       |                  |                      |
|                                | ZZTo2Q2L_mllmin4p0         |                  |   |                       |                       |                  |                      |
|                                | ZZTo4Q_5f                  |                  |   |                       |                       |                  |                      |
|                                | ZZZ                        |                  |   |                       |                       |                  |                      |