



Weekly

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16 May, 2016

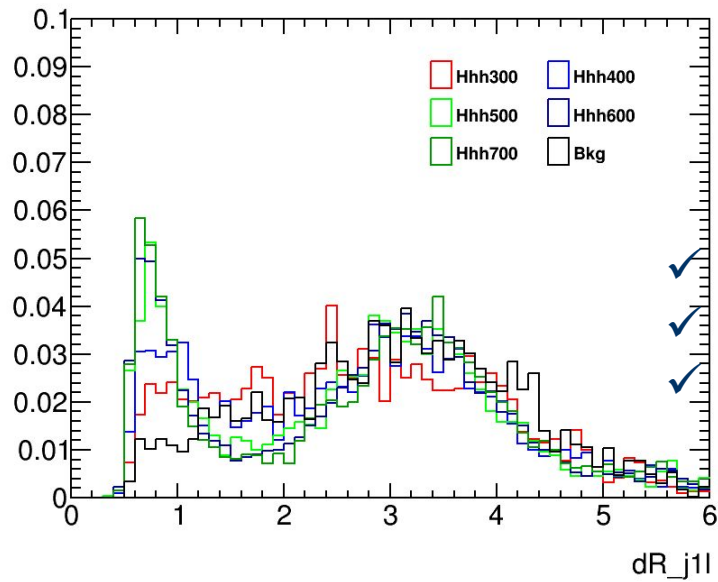
sample status

❖ **non-res 4W production running;**

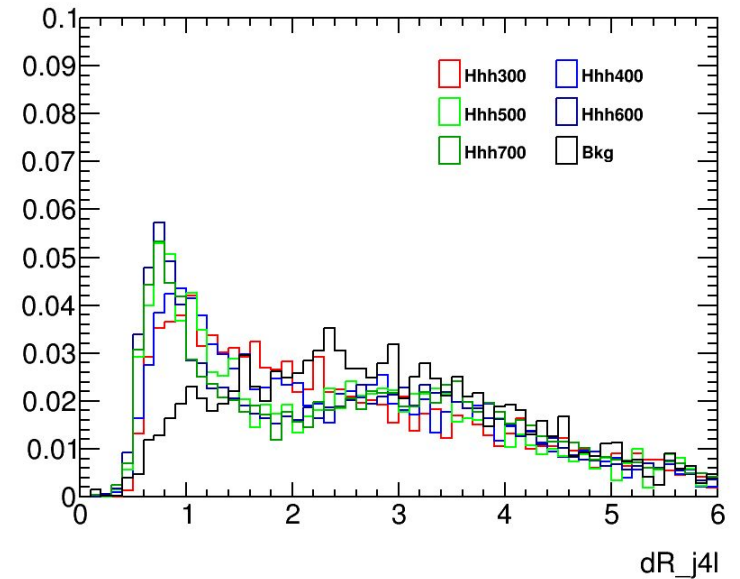
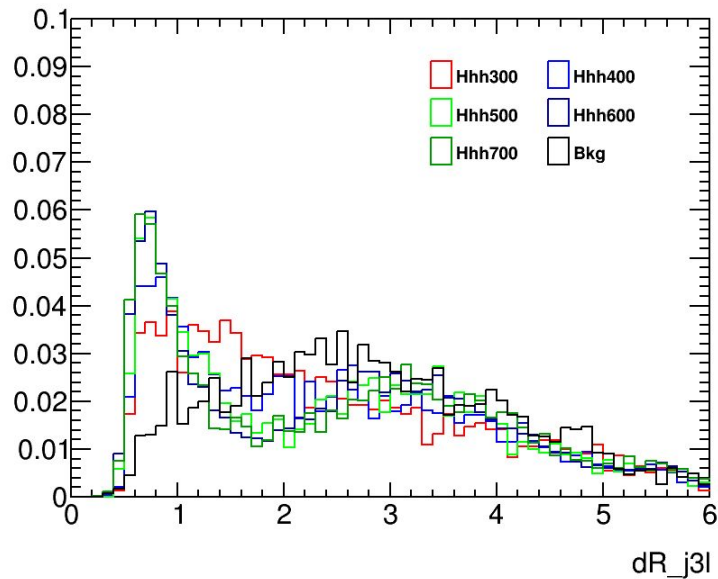
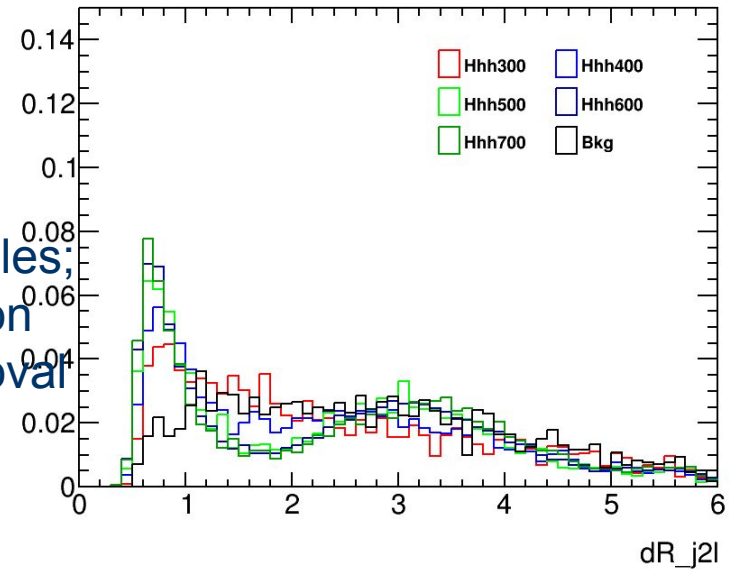
- https://prodtask-dev.cern.ch/prodtask/inputlist_with_request/7302/

❖ **res 4W not yet..**

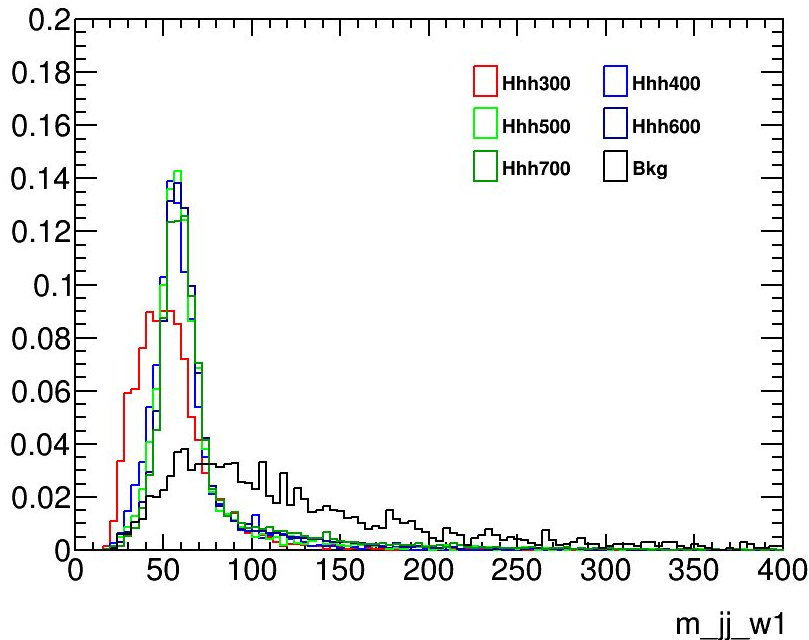
dR



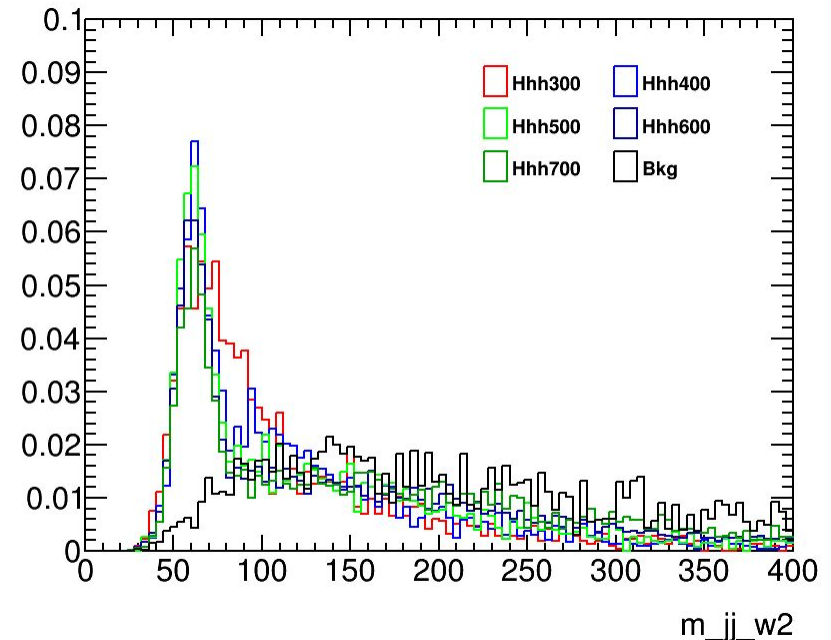
- ✓ private samples;
- ✓ fast simulation
- ✓ overlap removal



- ❖ Select two jets which have minimum dR to construct inv mass, then the other two also used.



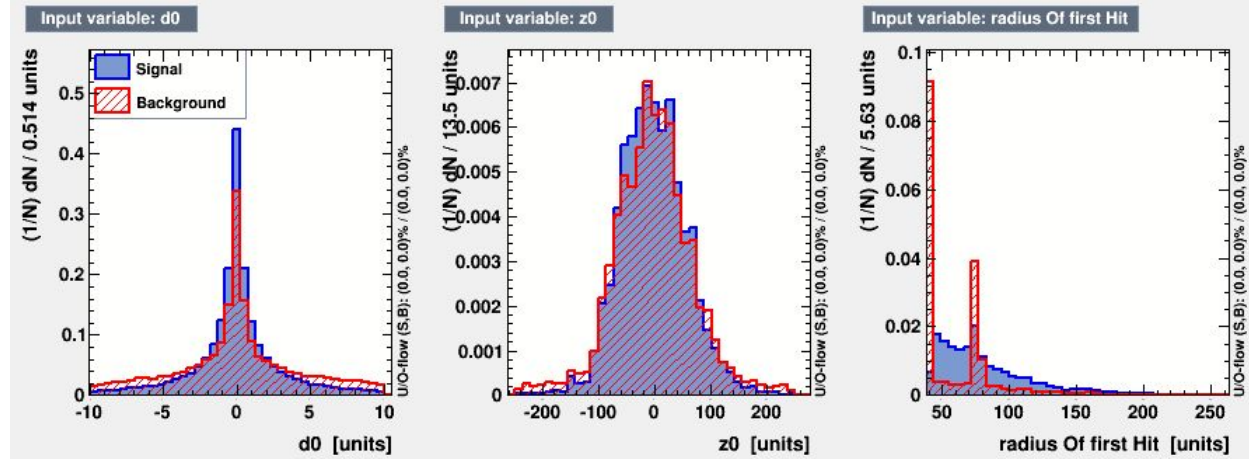
2 jets having
minimum dR



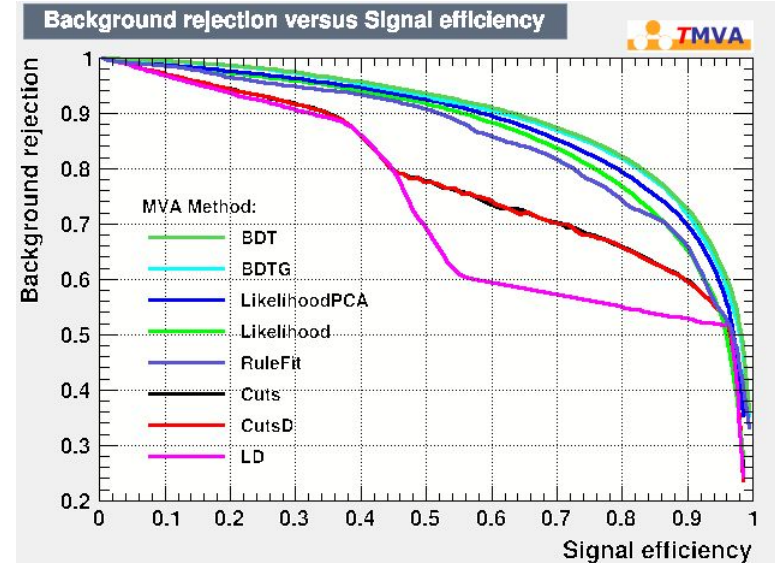
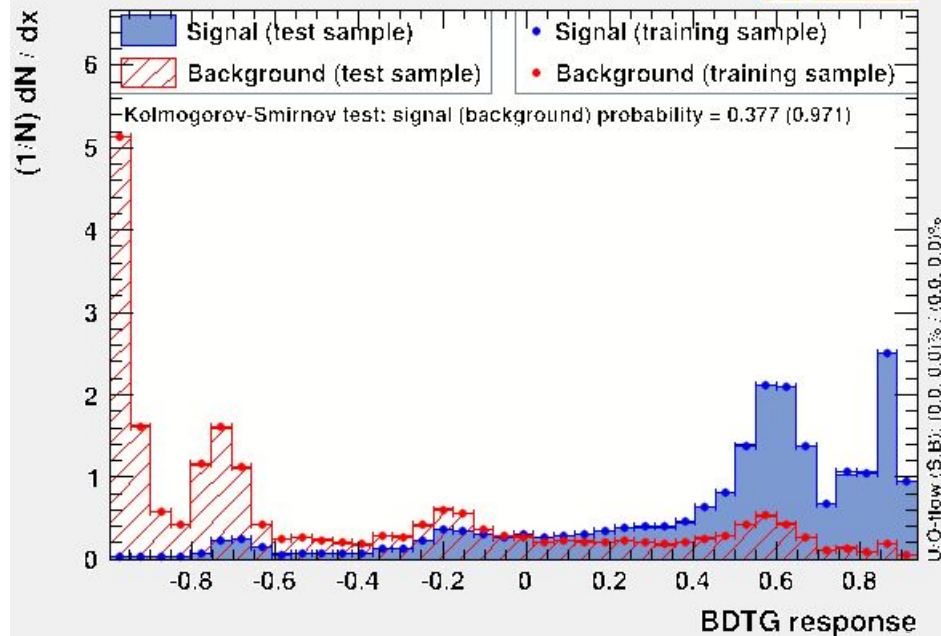
the other 2 jets

Track seeding MVA

- ✓ d_0 , z_0 , radiusOfFirstHit used;
- ✓ radiusOfFirstHit shows some power;
- ✓ result seems not bad;
- radiusOfSecondHit?



TMVA overtraining check for classifier: BDTG



Summary & to do list

- ❖ **dR, m_jj_w1 and m_jj_w2 seem good variables, since they are not mass dependent. Good for high mass search;**
- ❖ **MVA preliminary result shows a good sign in track seeding;**
- **Perform some studies on high mass, pheno side..**
- **Jet fakes estimation, begin closure test;**
- **More variables needed in seeding;**

Back up