



Weekly update

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April 15, 2019



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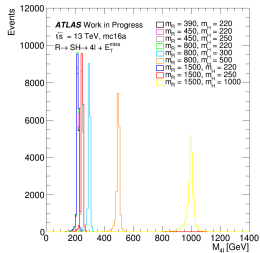
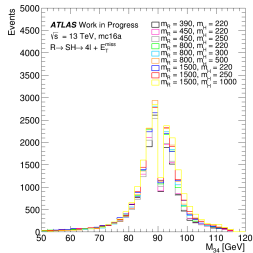
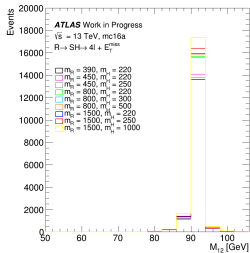


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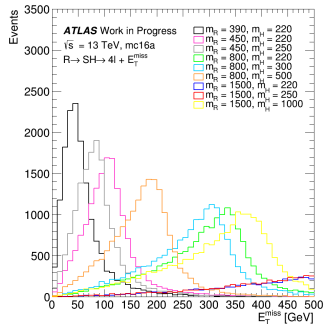
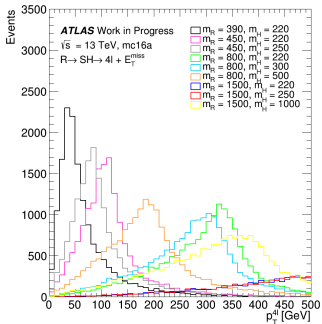
Signal samples have already been produced, [JIRA](#), as follows:

- The mass of S is fixed to 160 GeV;
- The masses of R are 400 GeV, 450 GeV, 800 GeV and 1500 GeV:
 - $m_R = 400$ GeV: $m_H = 220$ GeV
 - $m_R = 450$ GeV: $m_H = 220$ GeV and 250 GeV
 - $m_R = 800$ GeV: $m_H = 220$ GeV, 300 GeV and 500 GeV
 - $m_R = 1500$ GeV: $m_H = 220$ GeV, 250 GeV and 1000 GeV
- Is this overlap with DiHiggs $X \rightarrow SH$?
- Requested HIGG2D1 derivation with cache: 21.2.55 and p-tag: p3782. It's done, you can see it [here](#); and
- The mini-trees production using [HZZAnalRun2Code](#) is done.

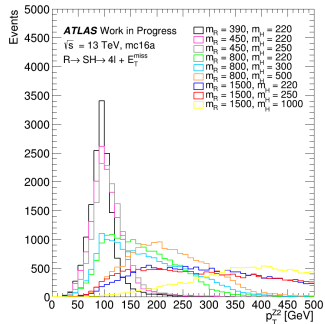
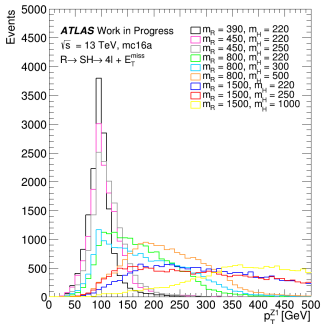
Kinematic distributions



Kinematic distributions



Kinematic distributions



Kinematic distributions

