Weekly

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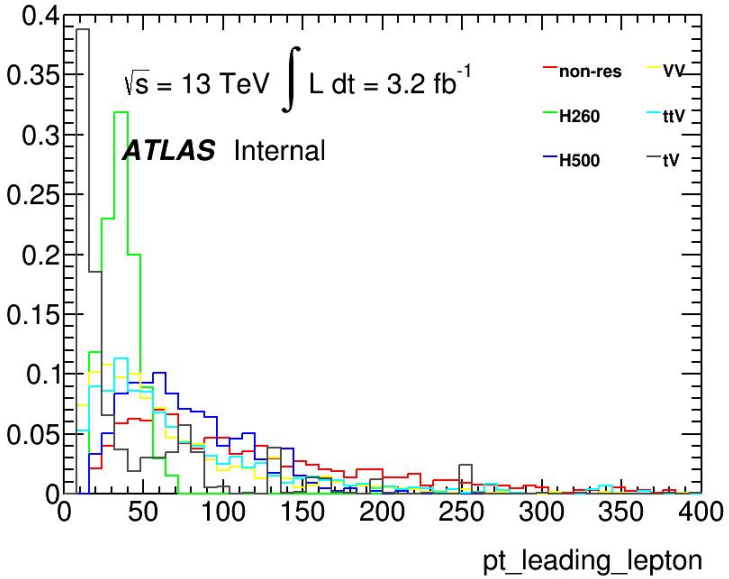
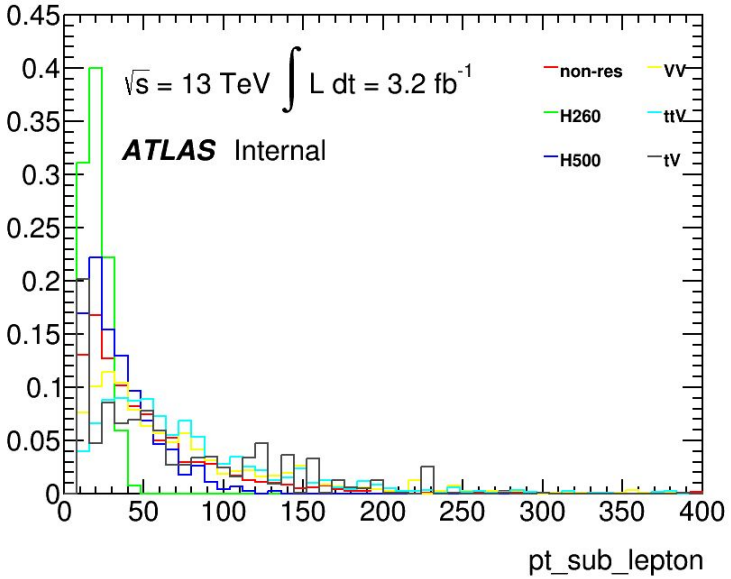
9 May, 2016

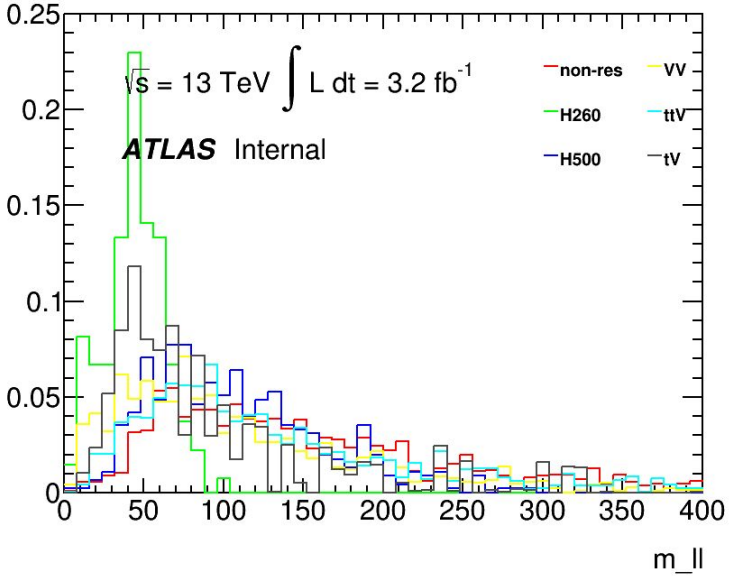
Introduction

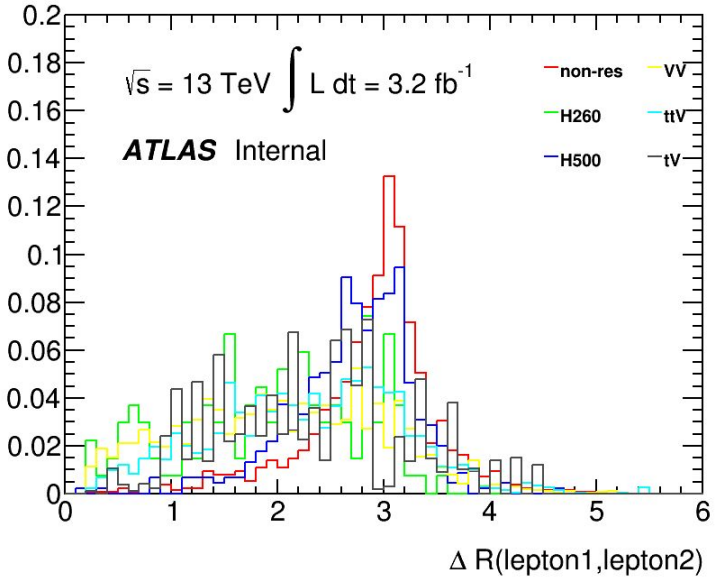
- **Note writing**
  - skeleton done;
- **Kinematics**
  - signal at parton level;
  - bkg full simulated;
  - cuts: Object definitions and pT_l1>20GeV, SS, >=4 jets
- **Event yield estimation using truth samples**

Kinematics-I

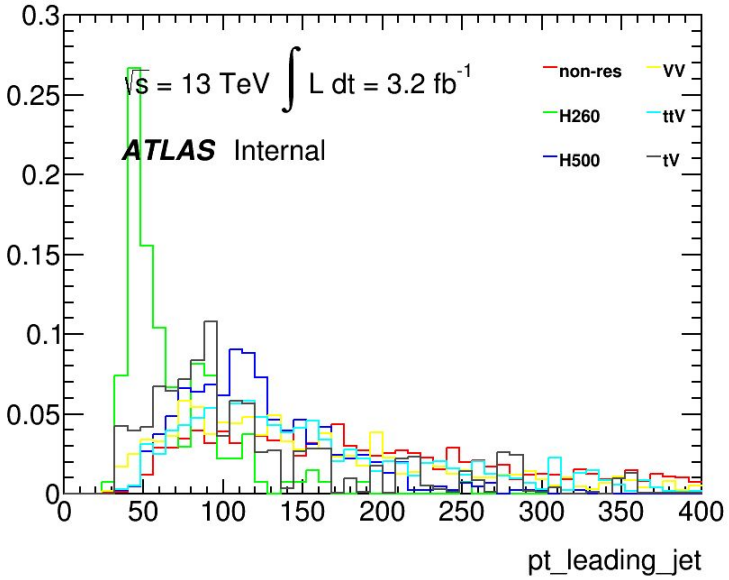


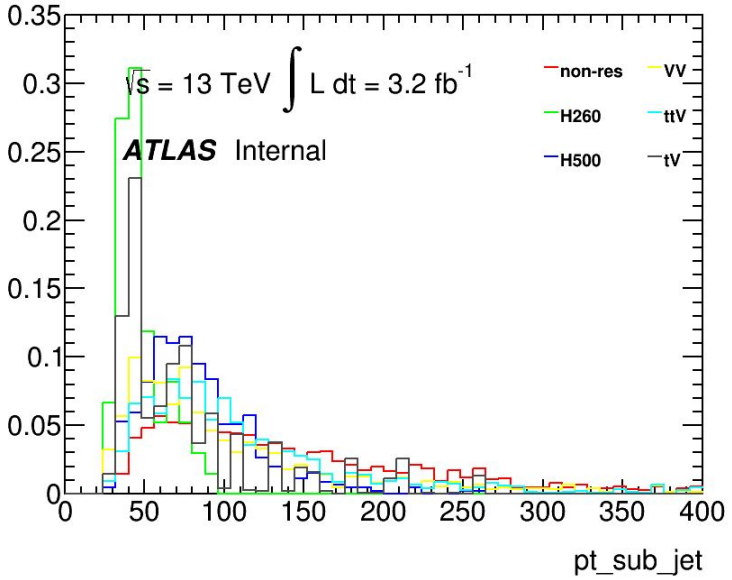


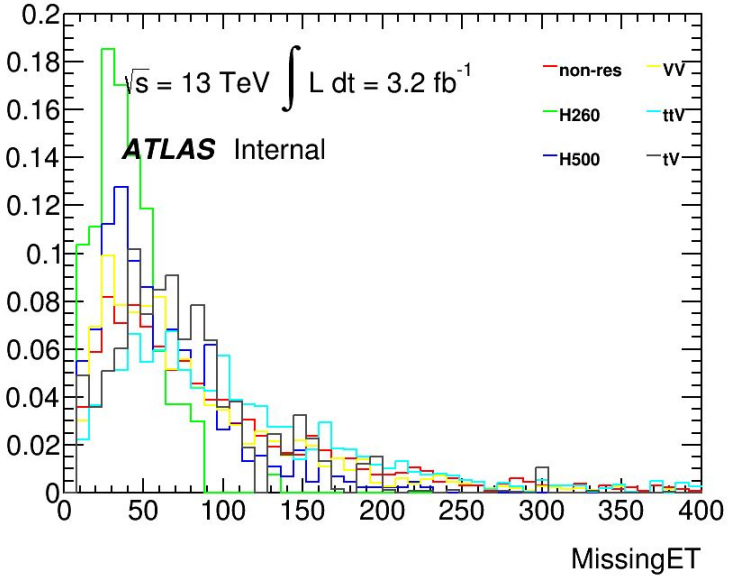


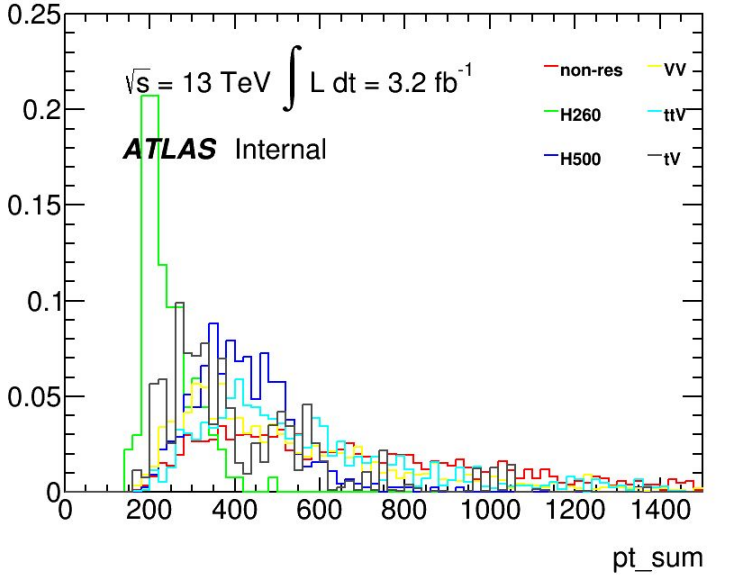


Kinematics-II

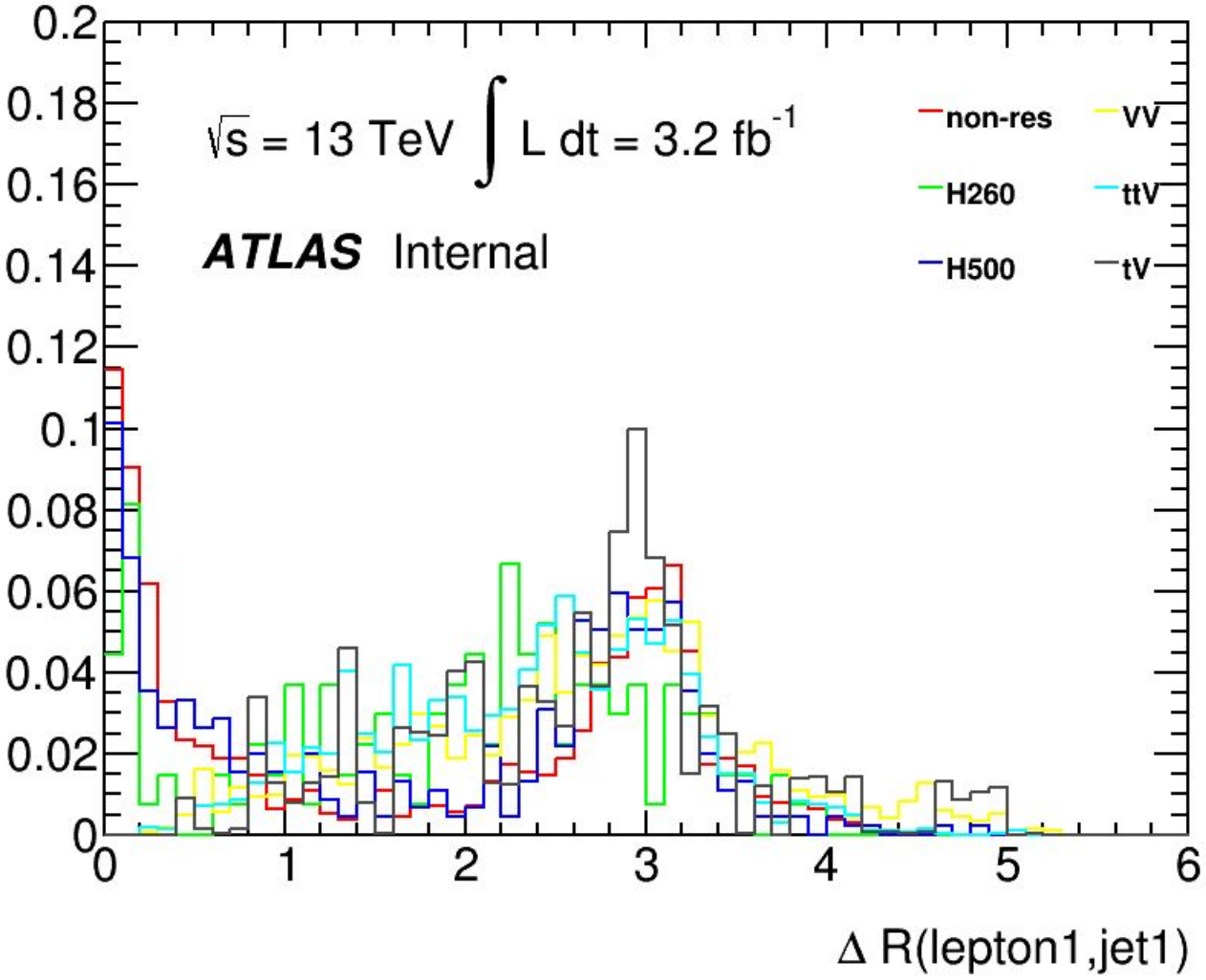








Kinematics-III



Event Yield @parton level

- **Assume xsec(pp→hh) = 1pb**

	non-res	H260	H500	VV	ttV	tV	ttH	jet fakes	Qmis ID
ee	7.64 %(1.13)	2.48 %	6.10 %	1.69	0.17	0.20	0.06	69.42	20.73
mumu	5.74 %(0.85)	0.56 %	4.25 %	1.93	0.19	0.20	0.09	8.73	~
emu	14.06 %(2.08)	3.79 %	12.35 %	3.69	0.32	0.43	0.17	31.81	1.96
sum	4.06			7.31	0.68	0.83	0.32	109.96	22.69

To do list

- implement event yield of jets fakes and QmisID;
- Expected limits;

Back up