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HPlusPlus200Validation

Event Generation and Sample Details

A sample of 9K generator level events was produced with following AtlasProduction tag : 15.6.13.12,notest Events were generated with Pythia release 6.423, The H++ mass was set to 200 GeV. The H++ was forced to decay to leptons.The H_L particle was produced (Pythia code 9900041) for this analysis.

Validation

Release	E CM	H++ Mass	N Evts	Cross Section
15.6.13.Y	7 TeV	200 GeV	9000	19.8 fb

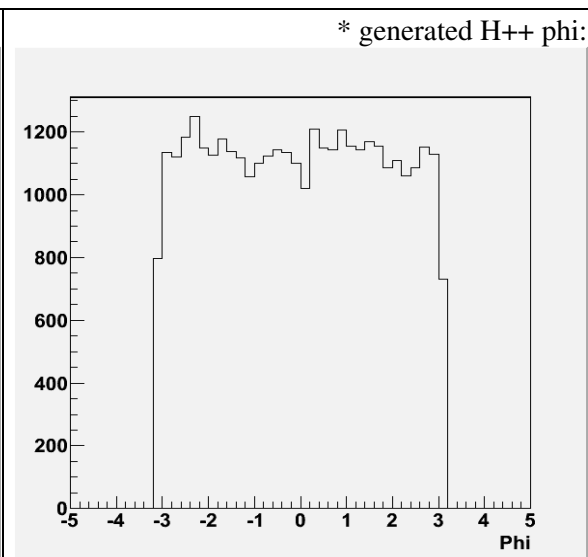
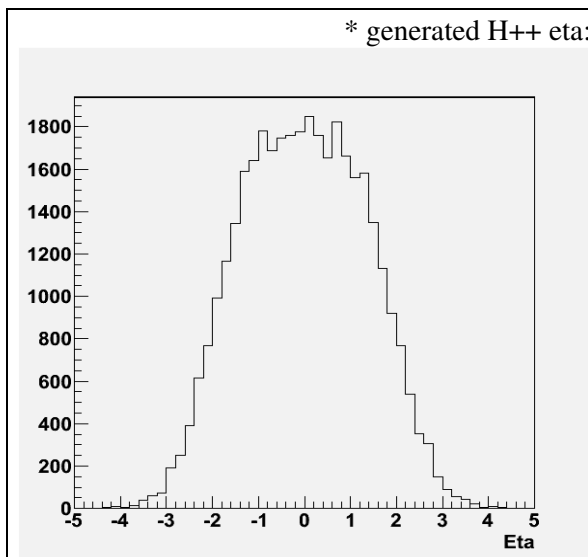
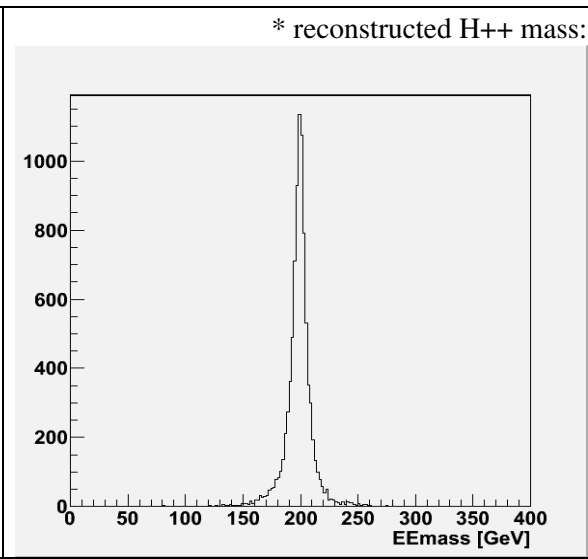
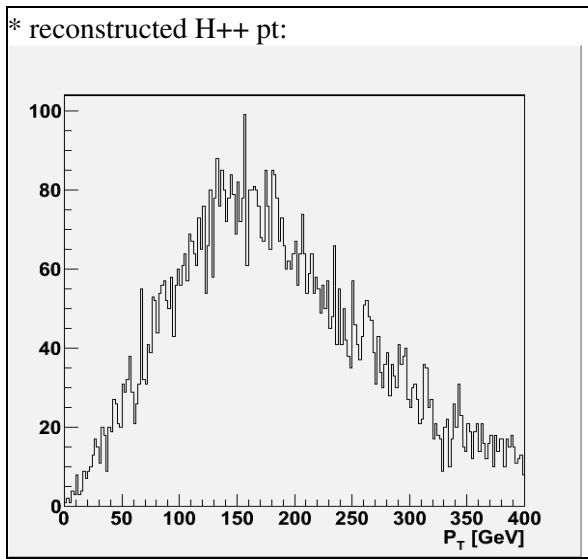
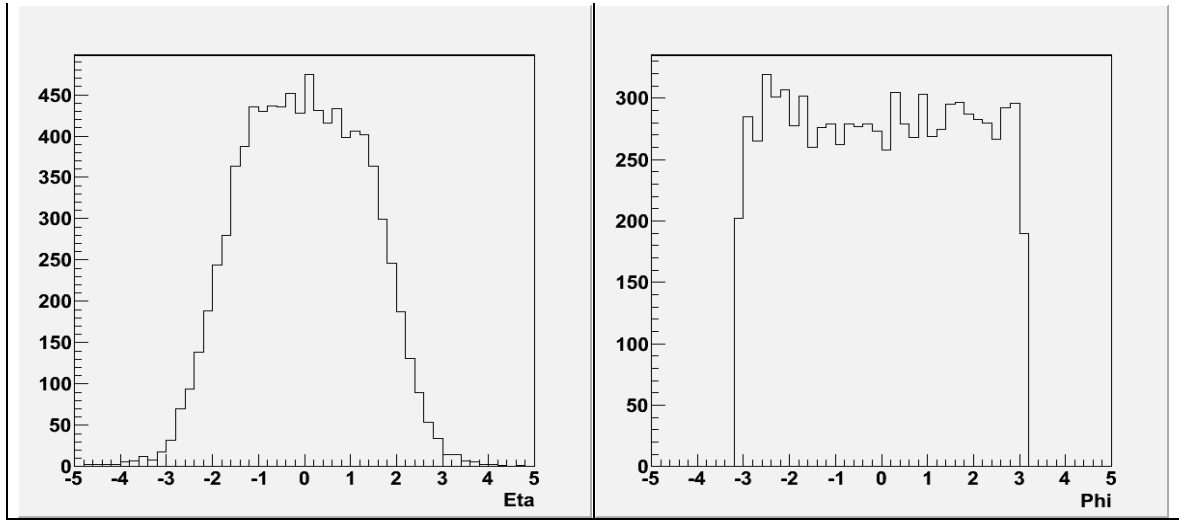
Validation for the rest of the mass points

Release	E CM	H++ Mass	N Evts	Cross Section
15.6.13.Y	7 TeV	110 GeV	9000	222.4 fb
15.6.13.Y	7 TeV	120 GeV	9000	180.2 fb
15.6.13.Y	7 TeV	130 GeV	9000	115.8 fb
15.6.13.Y	7 TeV	140 GeV	9000	85.9 fb
15.6.13.Y	7 TeV	150 GeV	9000	65.5 fb
15.6.13.Y	7 TeV	160 GeV	9000	51.1 fb
15.6.13.Y	7 TeV	170 GeV	9000	39.2 fb
15.6.13.Y	7 TeV	180 GeV	9000	32.1 fb
15.6.13.Y	7 TeV	190 GeV	9000	27.6 fb
15.6.13.Y	7 TeV	200 GeV	9000	19.8 fb
15.6.13.Y	7 TeV	210 GeV	9000	17.1 fb
15.6.13.Y	7 TeV	220 GeV	9000	15.0 fb
15.6.13.Y	7 TeV	230 GeV	9000	12.1 fb
15.6.13.Y	7 TeV	240 GeV	9000	10.4 fb
15.6.13.Y	7 TeV	250 GeV	9000	8.3 fb
15.6.13.Y	7 TeV	260 GeV	9000	6.9 fb
15.6.13.Y	7 TeV	270 GeV	9000	5.3 fb
15.6.13.Y	7 TeV	280 GeV	9000	4.8 fb
15.6.13.Y	7 TeV	290 GeV	9000	3.9 fb
15.6.13.Y	7 TeV	300 GeV	9000	3.1 fb

Validation plots

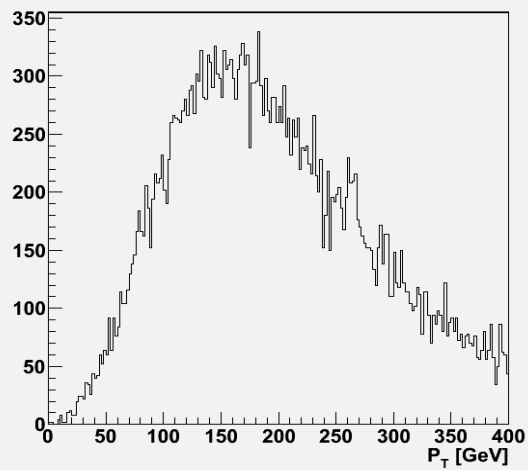
* reconstructed H++ eta:	* reconstructed H++ phi:

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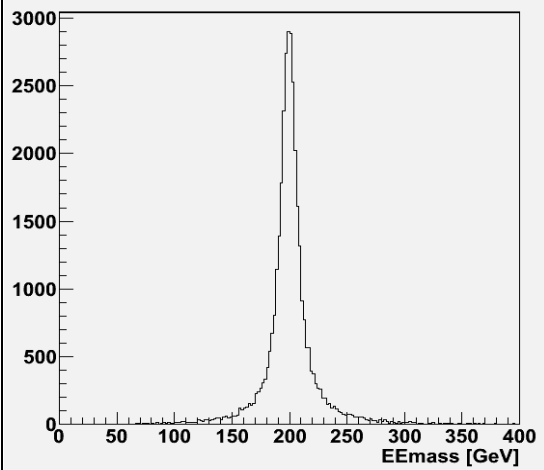


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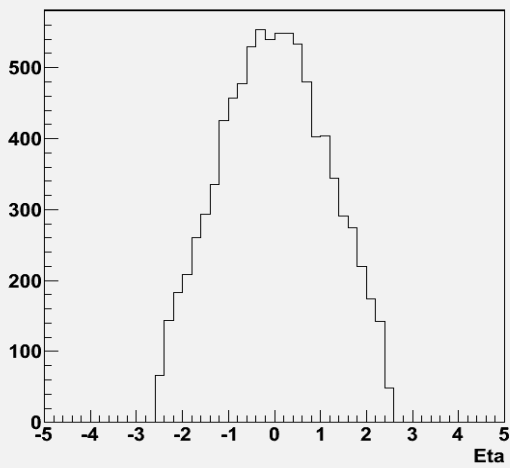
* generated H++ pt:



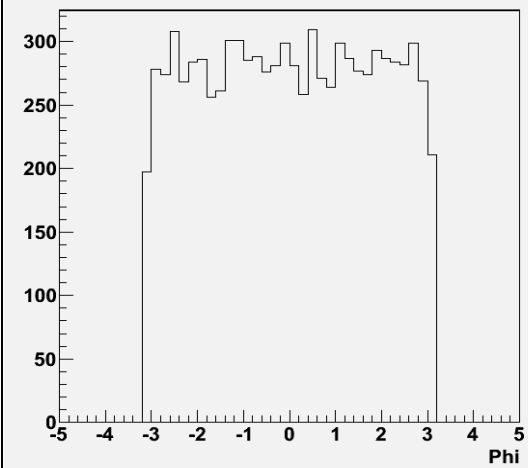
* generated H++ mass:



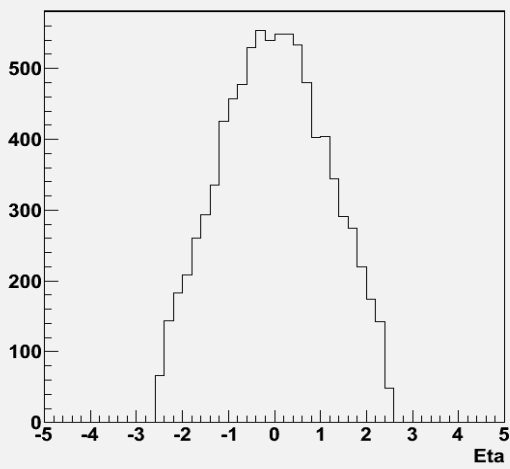
* reconstructed electron eta:



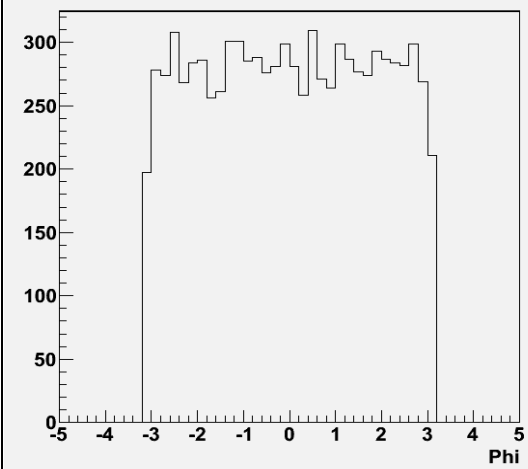
* reconstructed electron phi:

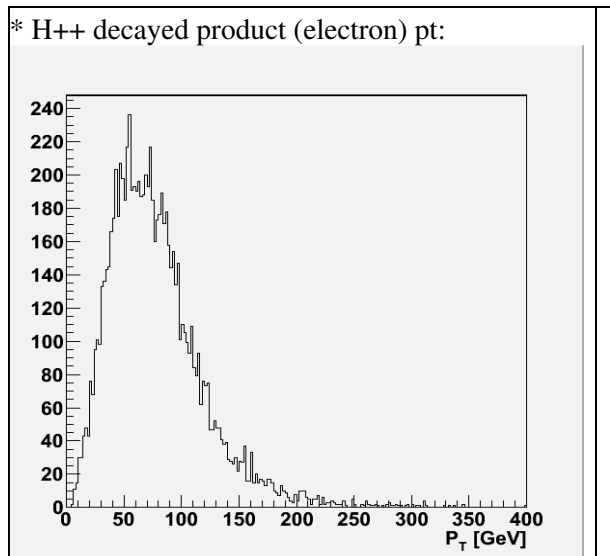


* H++ decayed product (electron) eta:



* H++ decayed product (electron) phi:





contact person

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