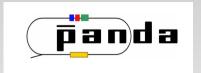
pp→e+e-π° with Fastsim







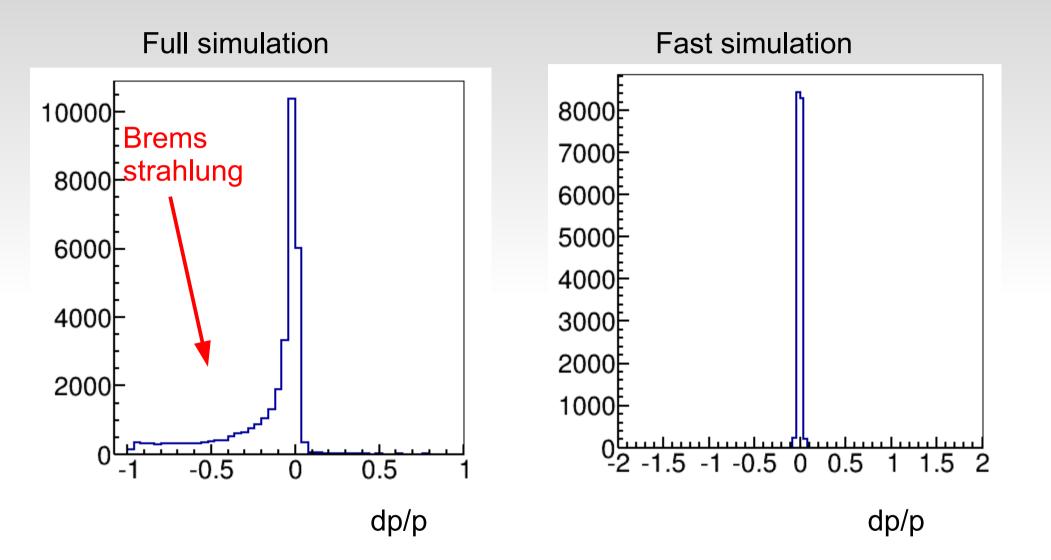


Ronald Kunne IPN Orsay, France CNRS/IN2P3 – Université Paris Sud Pbeam = 10 GeV/c

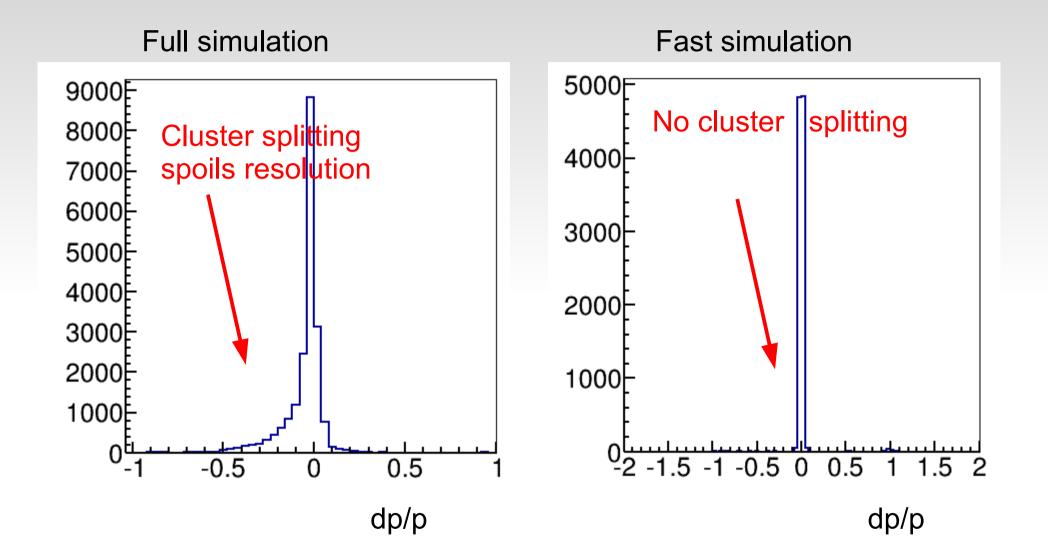
Externals: apr13

PandaRoot: mar14 (version 24467)

Electron resolution

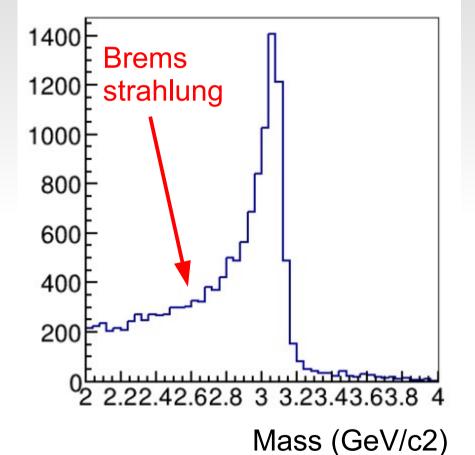


Pizero resolution

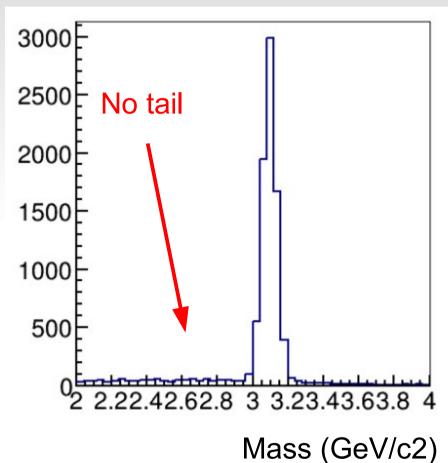


J/ψ mass

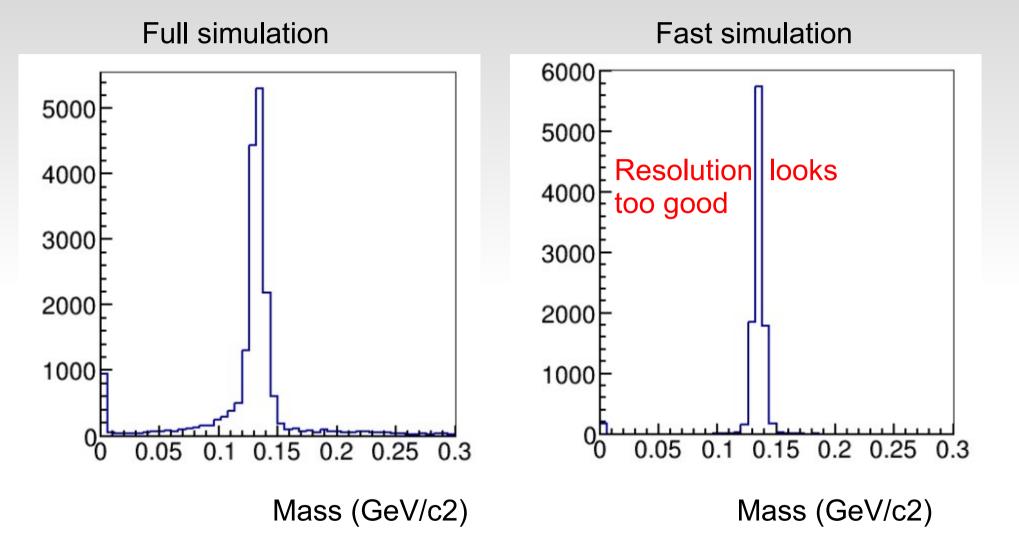
Full simulation



Fast simulation

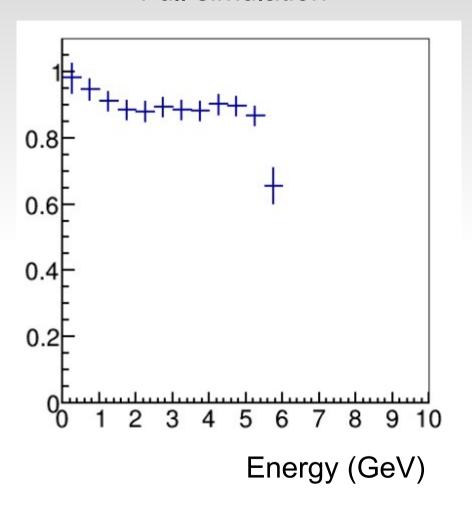


π° mass

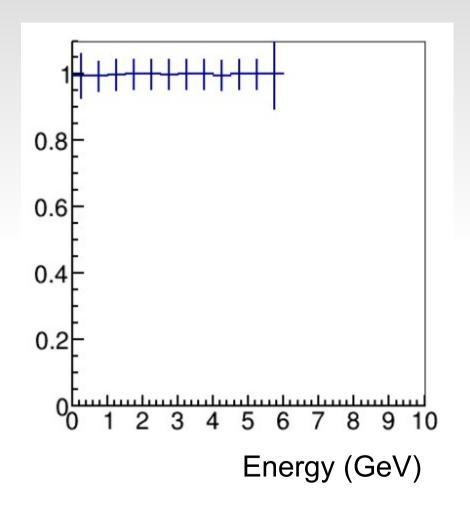


π° efficiency

Full simulation



Fast simulation



Event efficiencies

	1 1 1
l simu	lation
	1411()[]
 I OIIII M	IGUOII

Fast simulation

20000 events

10000 events

67.2% two electrons found 100% two gammas found

73.7% two electrons found 100% two gammas found

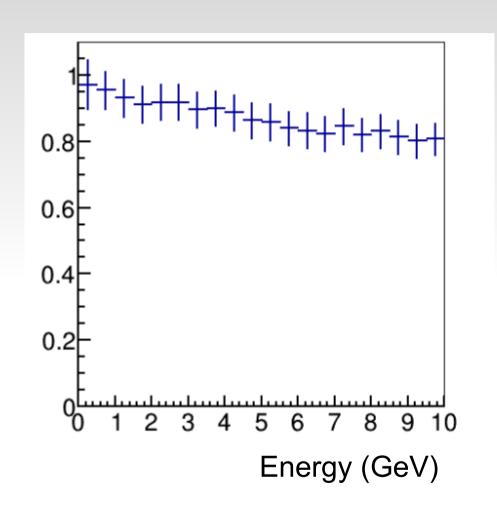
66.5% Jpsi found in mass 89.4% Pizero found in mass

73.7% Jpsi found in mass 99.8% Pizero found in mass

58.6% events reconstructed

73.6% events reconstructed

π° efficiency



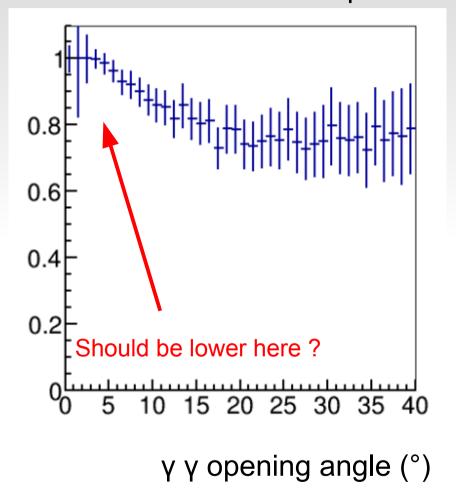
π° efficiency drops off linearly with energy

(from a box simulation)

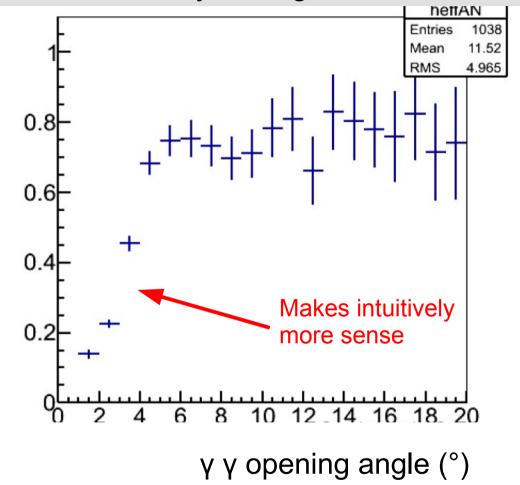
Problems?

π° efficiency (problem...)

Box simulation april 2014



Ditto, two years ago



EMC backgrond not in simulation

