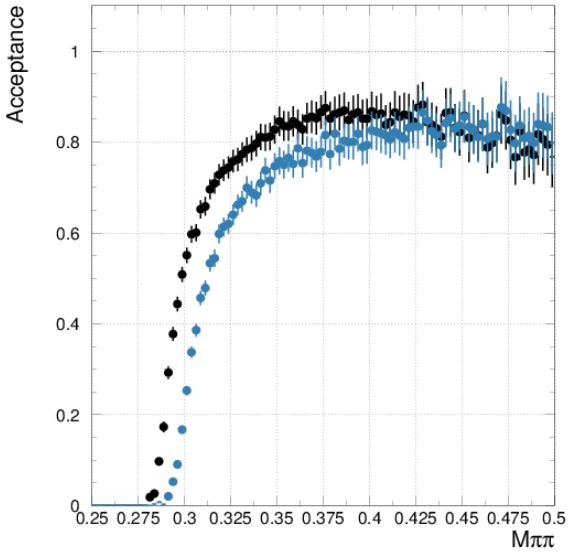
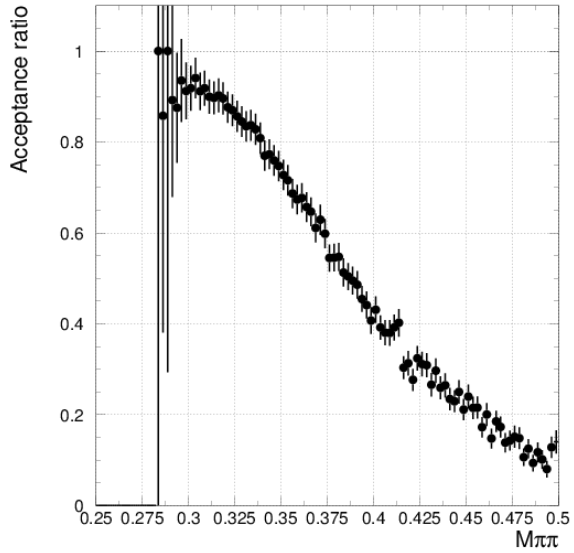
Acceptance vs $W_{\pi\pi}$

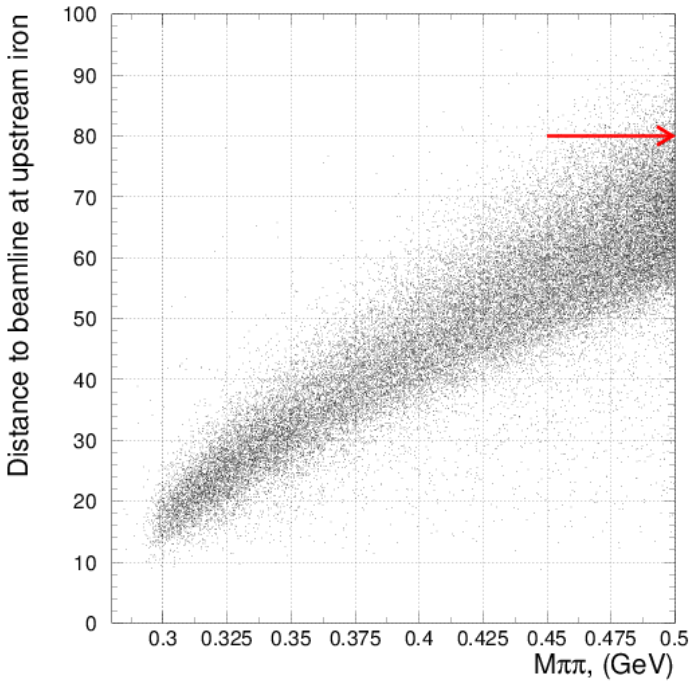
New TOF vs Current TOF



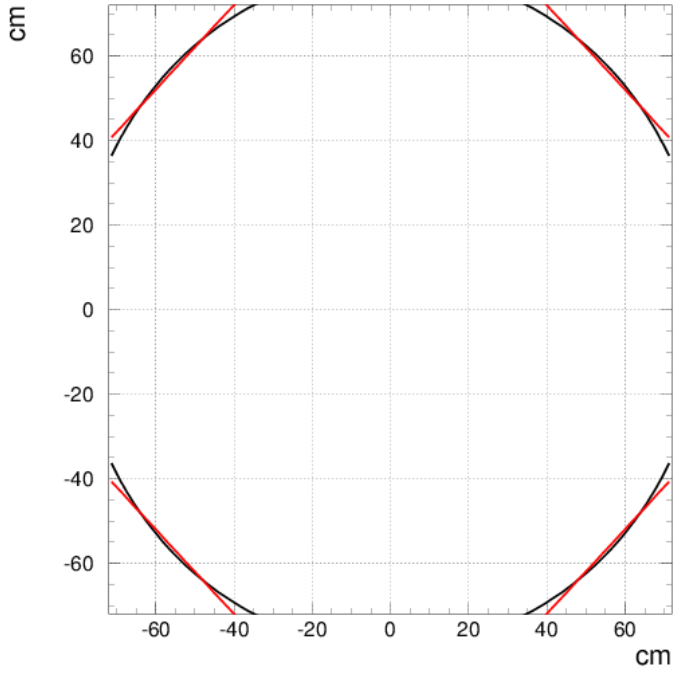
MWPCs behind electronics racks vs behind FCAL



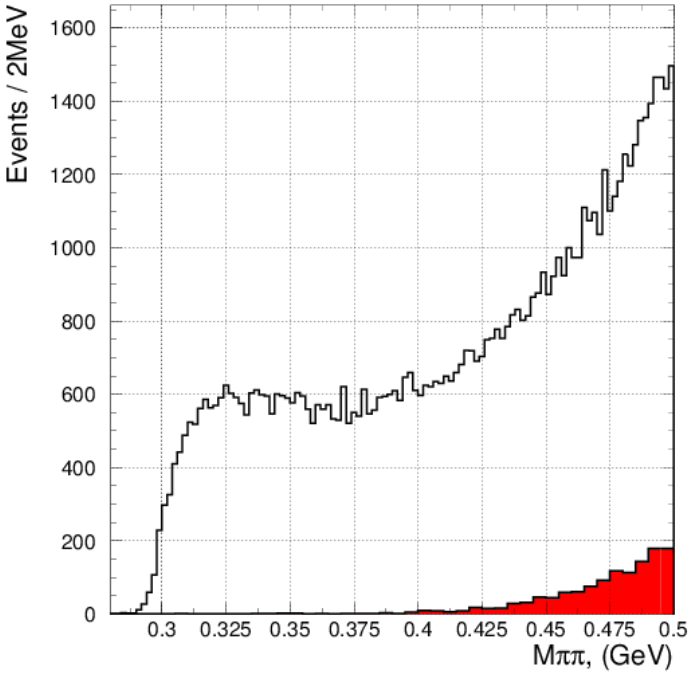
Iron shield: efficiency effect of corner cut



Maximum distance of two pions to the beamline for the trigger accepted events at upstream iron plane

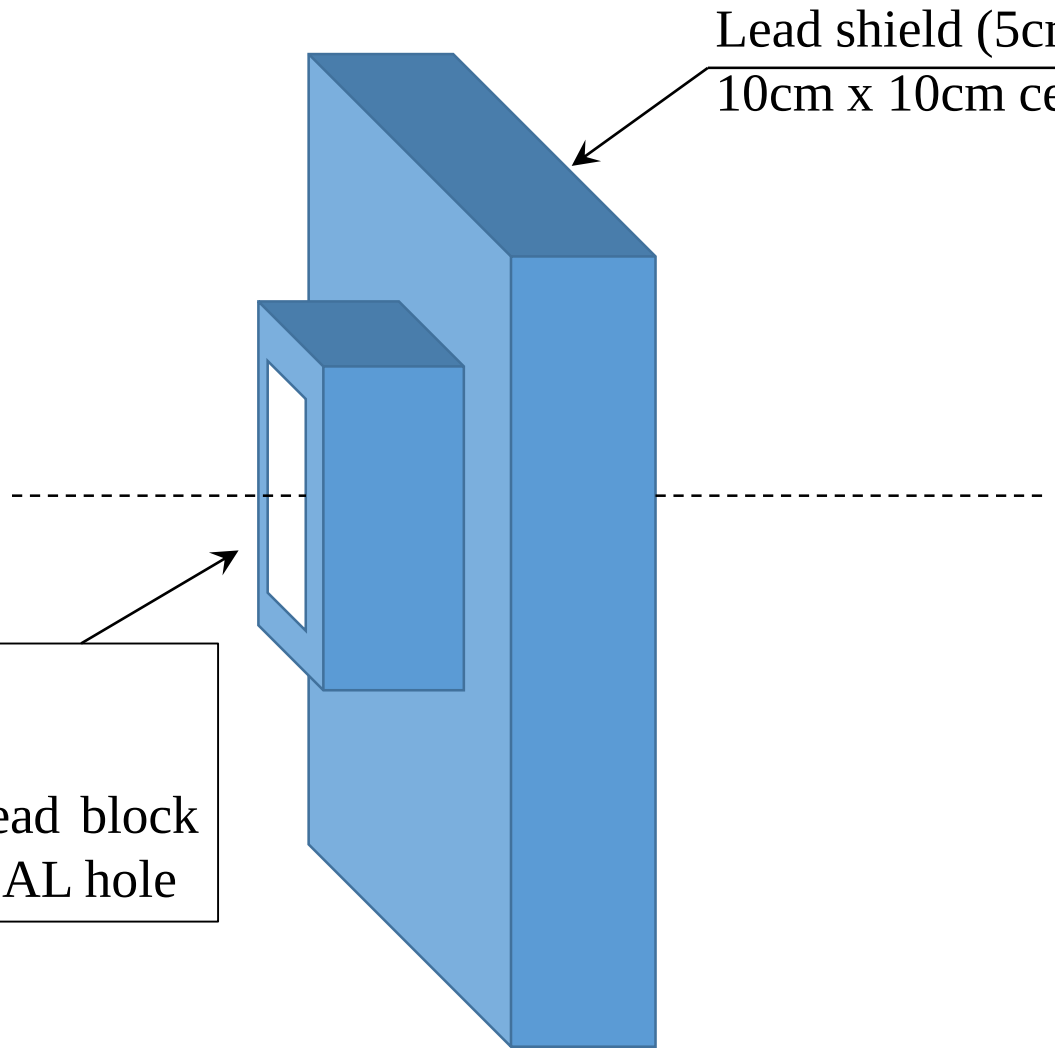


Visual comparison of Radius 80cm and 40cm triangle cuts



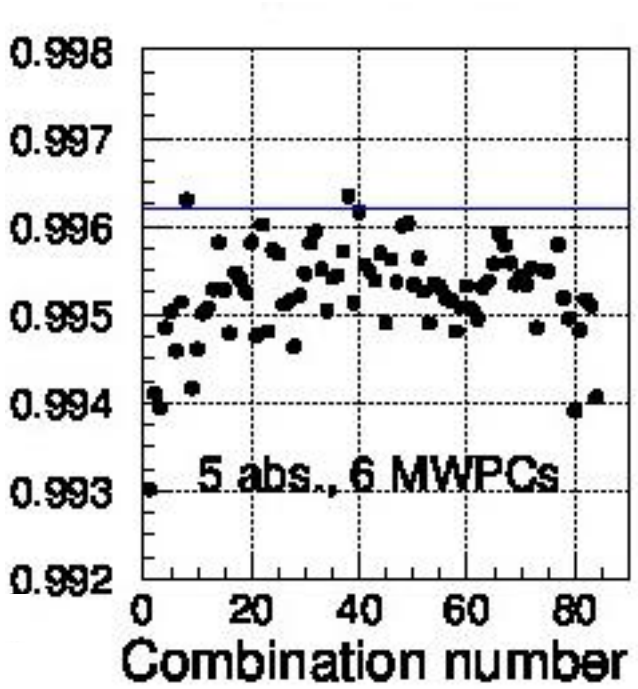
Events passed through the trigger (open histogram). Red histogram shows the fraction of event which is missing due to triangle iron cut

Proposed central part for the lead shield



14cm x 14cm outer size
8cm x 8cm inner size
10cm thick square movable lead block added to compensate for the FCAL hole

Iron thickness distribution for 5 walls, 100cm total thickness

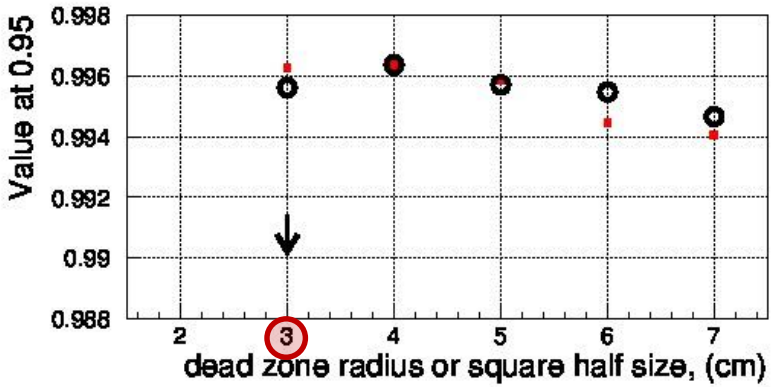


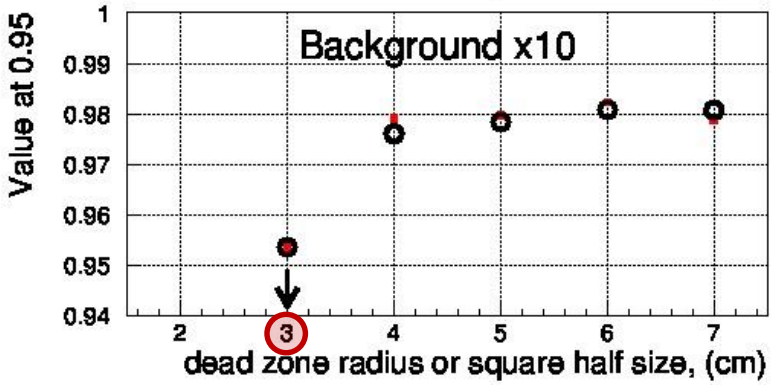
Pion pair purity at 5% rejection	Combination internal number	Iron thickness [cm] distribution (100cm total)	
0.996337	5038	5 10 15 35 35	(winner)
0.994061	*5084*	*20 20 20 20 20*	*(uniform)*

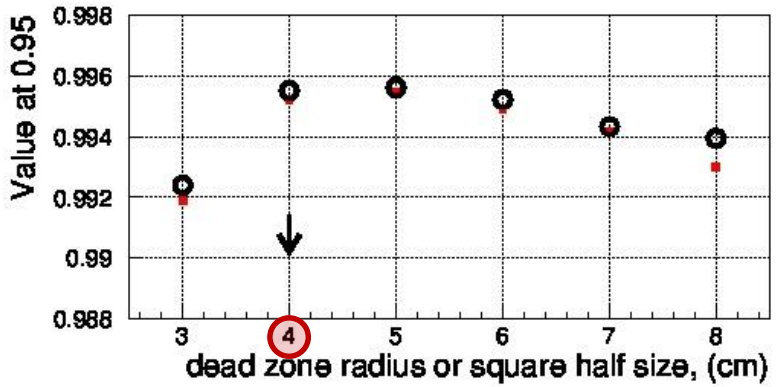
Pion signal purity at 5% rejection vs MWPC dead zone size and iron shield hole size

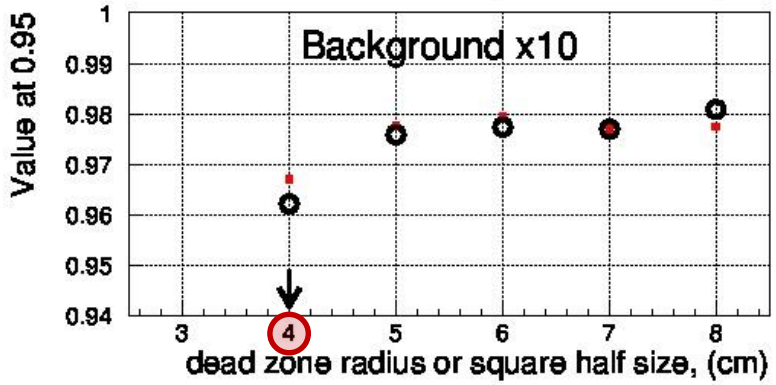
Iron hole size shown by arrow (4 plots for values 3, 4, 5, and 6 cm);

Top plots – expected background level, bottom plots – background increased by the order of magnitude

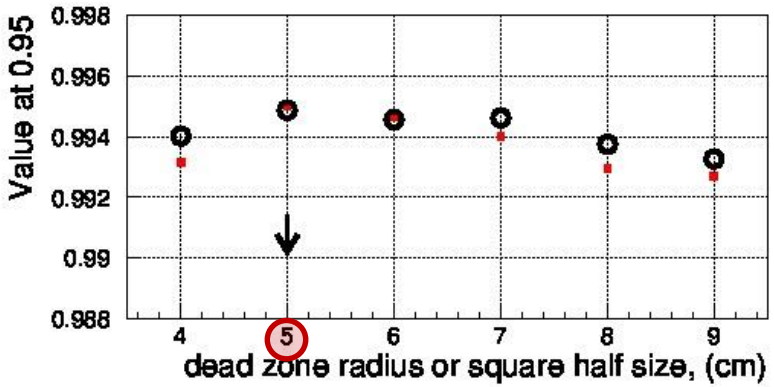


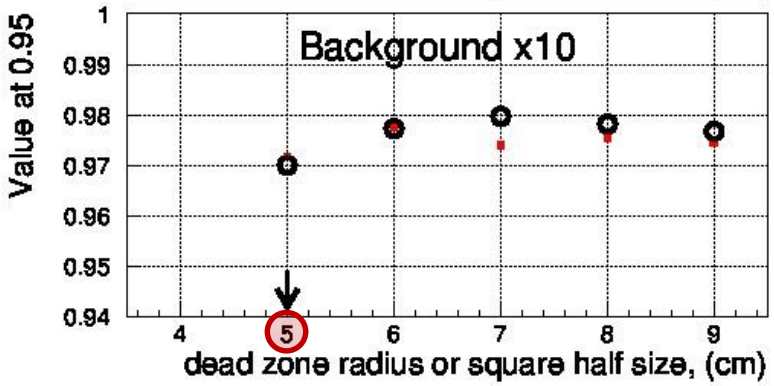


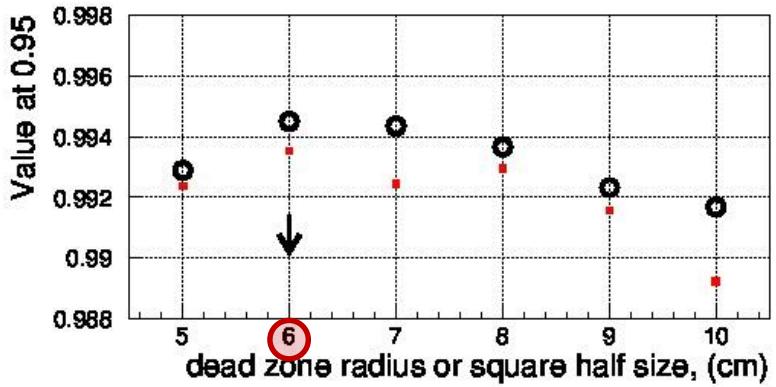


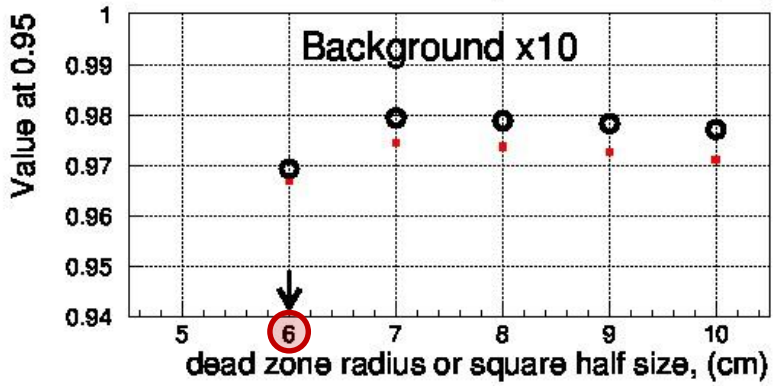


- **Round shape**
- **Square shape**









- Round shape
- Square shape