



Good track==	Xoca	<0.5mm &	&&			
$ Yoca < 0.5 \text{mm} \& \chi^2(\text{track}) < 100$						
~90%	effici	ent				

	"€(A´)"	RMS(Z _v)	f(>4mm)	f(>1cm)
Loose (solid)	0.19	2.03	0.040 (0.63)	0.012
Tight (errors)	0.18	1.65	0.022 (0.51)	0.003 (0.63)

Vertex Selection #2





	"ε(A´)"	RMS(Z _v)	f(>4mm)	f(>1cm)
Loose (solid)	0.18	1.65	0.022 (0.51)	0.0026 (0.63)
Tight (errors)	0.17	1.45	0.016 (0.70)	0.0017 (0.85)

Vertex Selection #3



Rate dependence on Z_v



Using the tight cuts as on previous slide

Varying material and Z_v



Using the tight cuts as on previous slide





Notes...

- Looks like we can come up with some reasonable cuts to improve the Z_v resolution closer to where we want it
 - on the tails, tracks with mishits are a problem (but not the whole problem)
 - we need a lot more events in order to really study this...
- The tails get worse with higher rates and better with less material...no surprises.
- The per-hit pulls look pretty bad; need to look at the track fitter more closely...this could effect the vertex resolution