

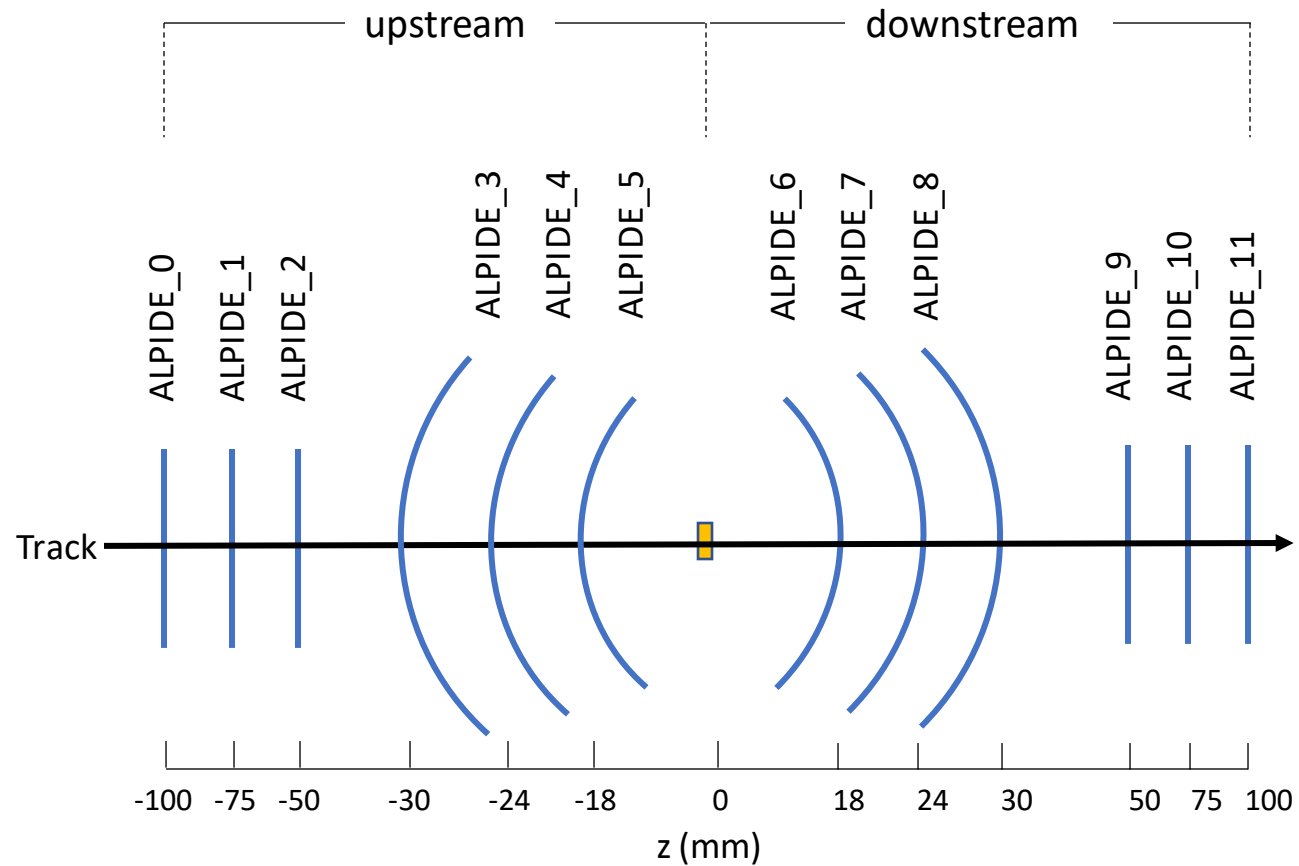
Test-beam July 2021

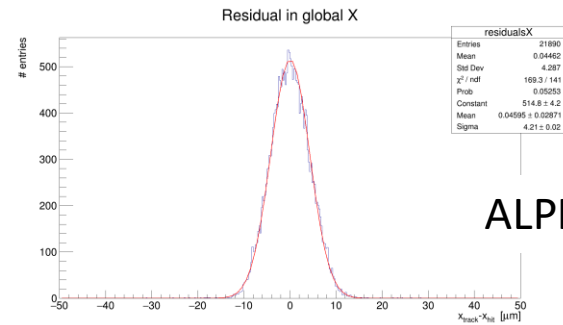
Telescope of 6 flat ALPIDEs + 6 bent ALPIDEs as DUTs (micro-ITS3) + Cu target.

The fitting model for tracking was updated from "straight-line" to "gbl" (general-broken-line), which accounts for scattering effects.

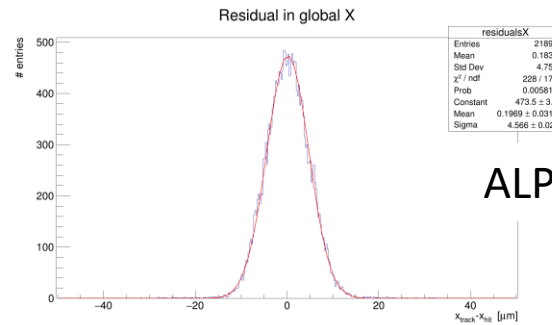
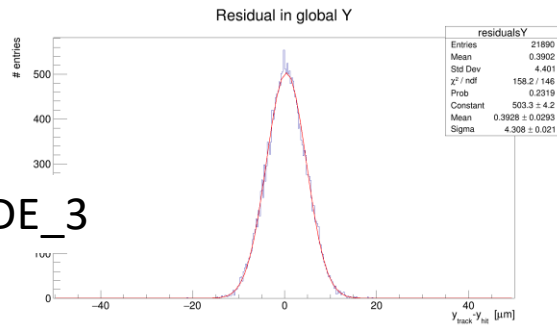
New alignment has been performed.

Residuals after tracking with all layers (REFs + DUTs)

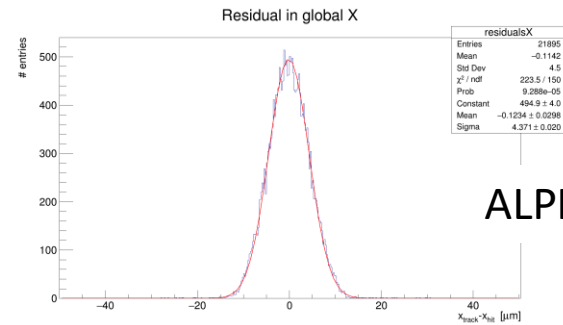
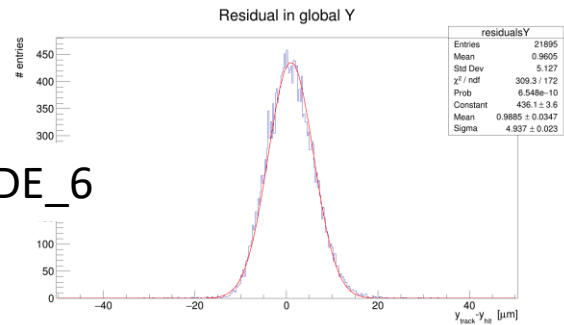




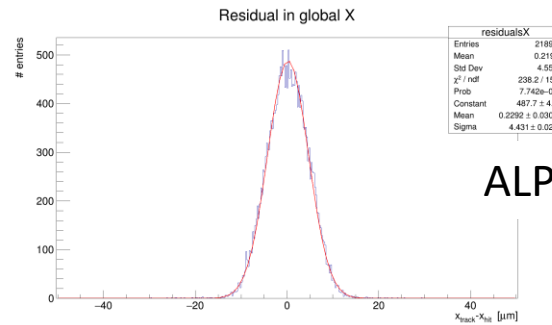
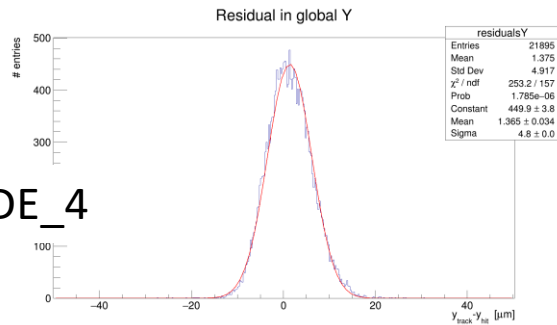
ALPIDE_3



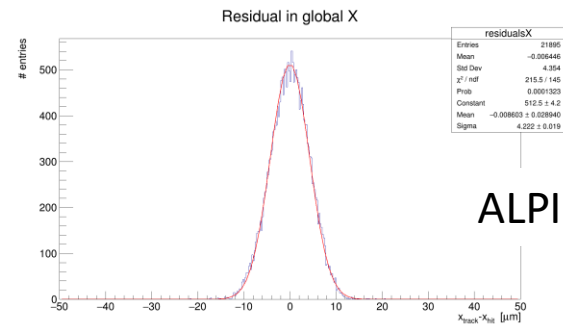
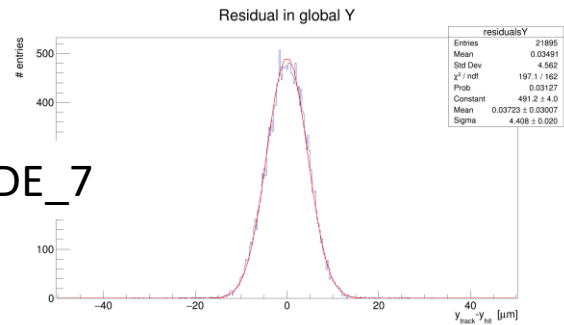
ALPIDE_6



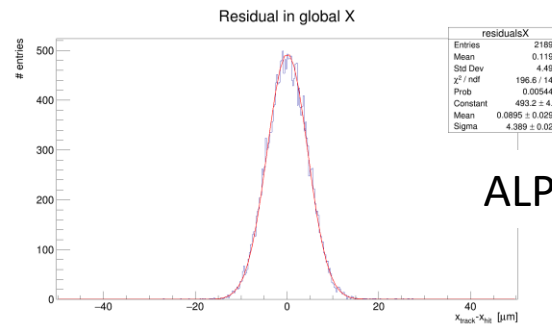
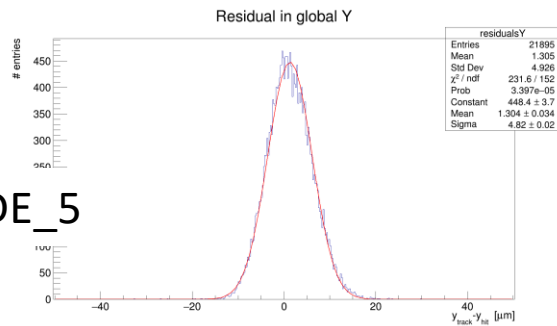
ALPIDE_4



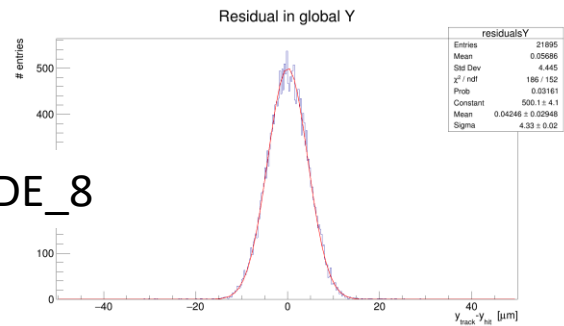
ALPIDE_7



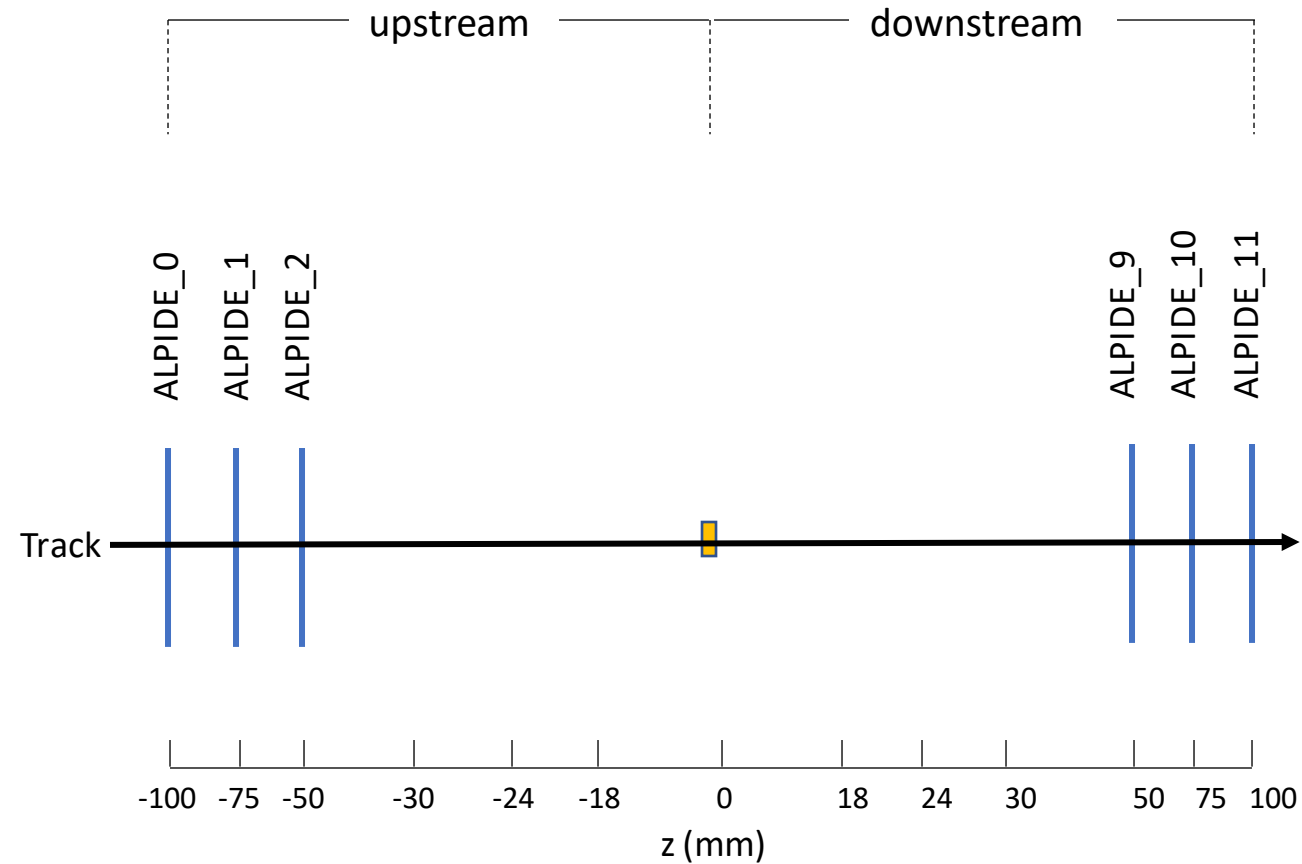
ALPIDE_5



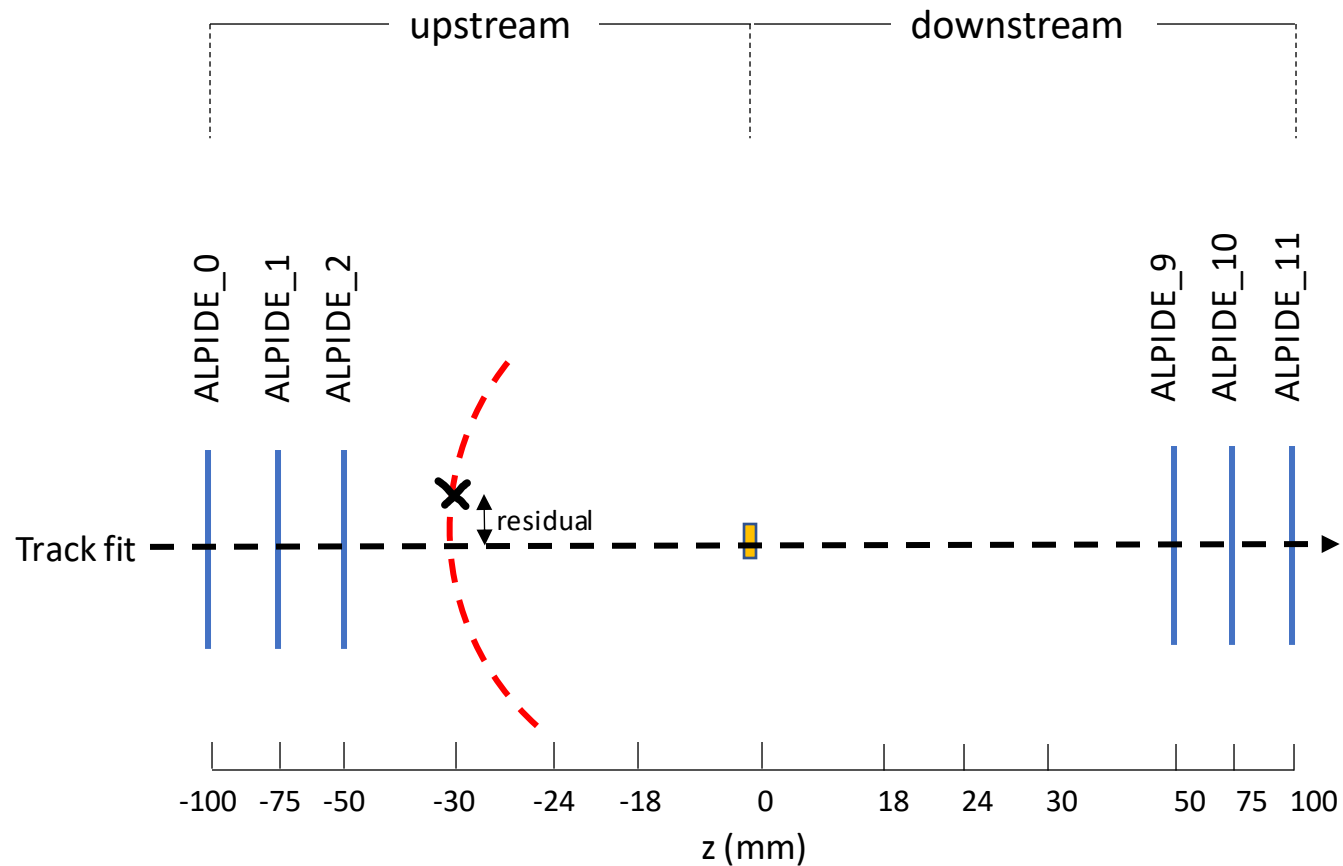
ALPIDE_8

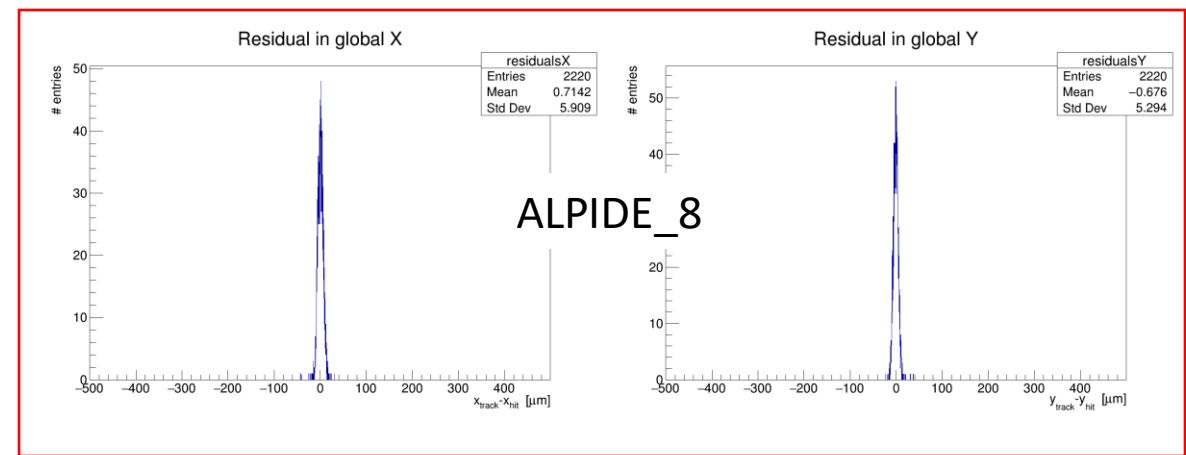
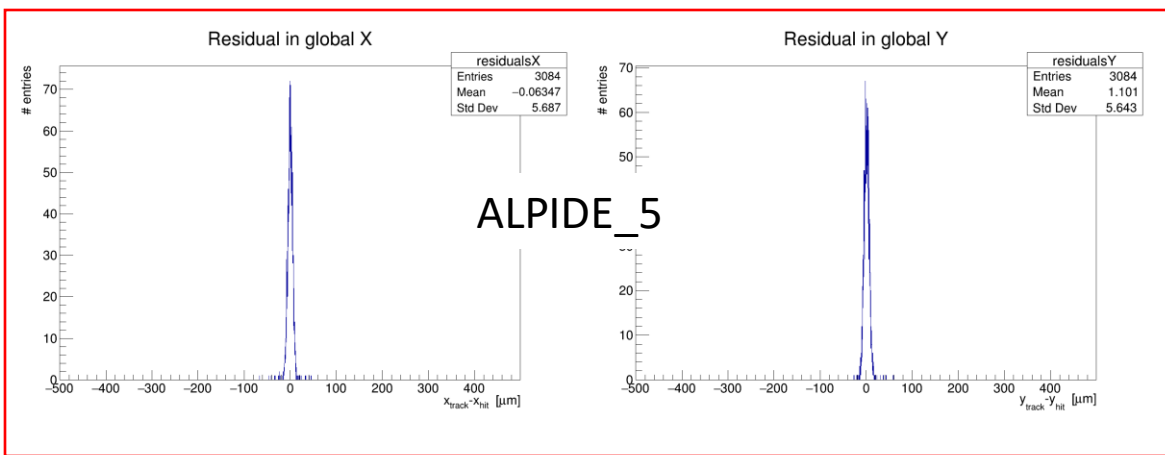
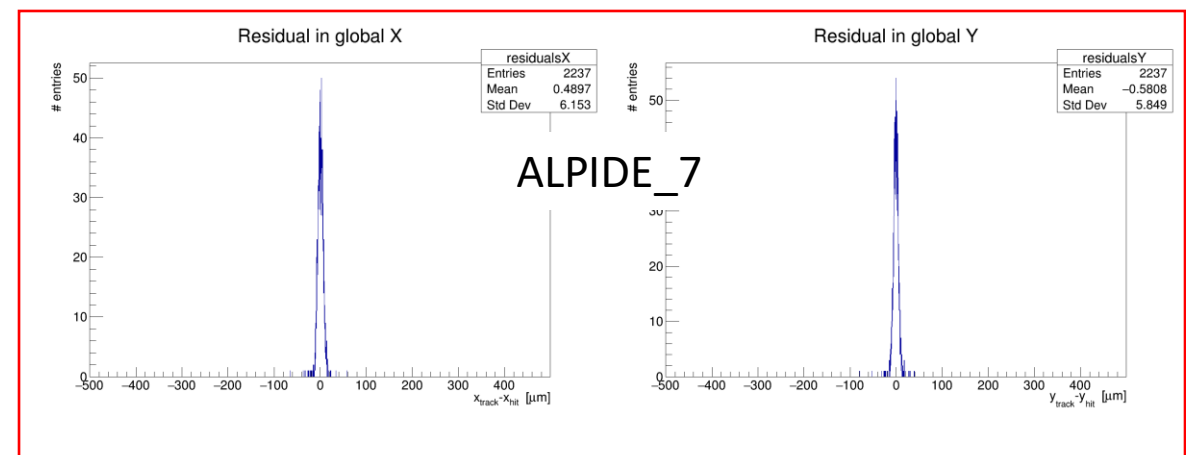
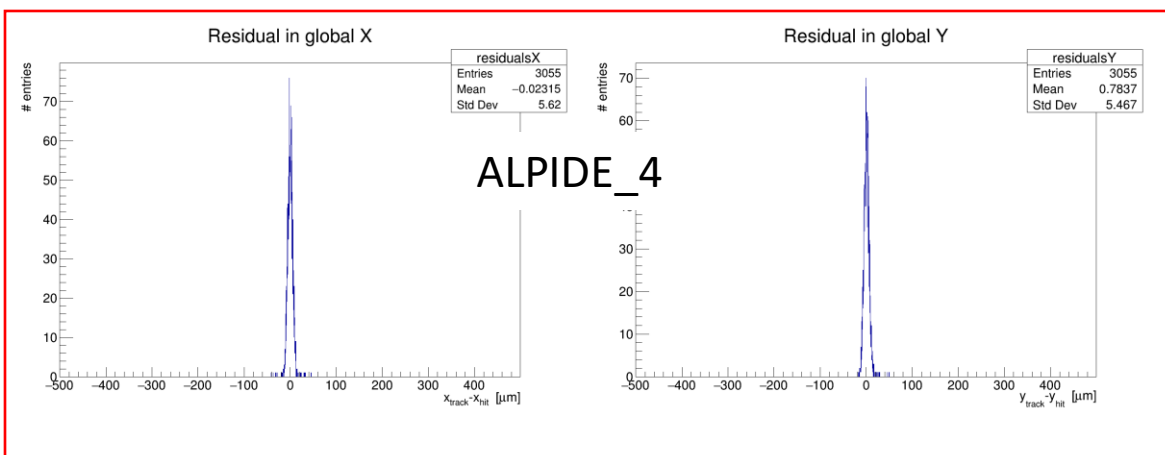
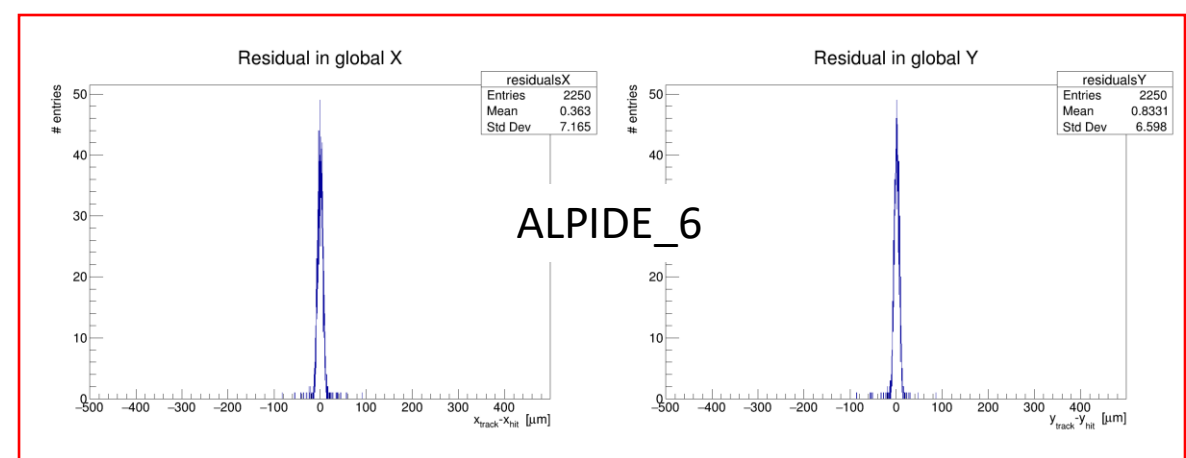
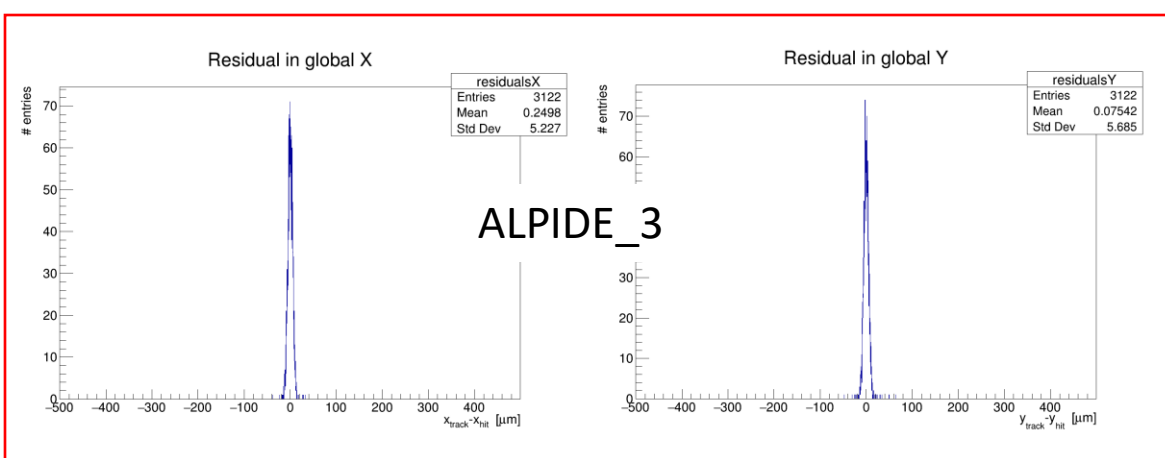


Residuals after tracking with telescope layers(REFs)

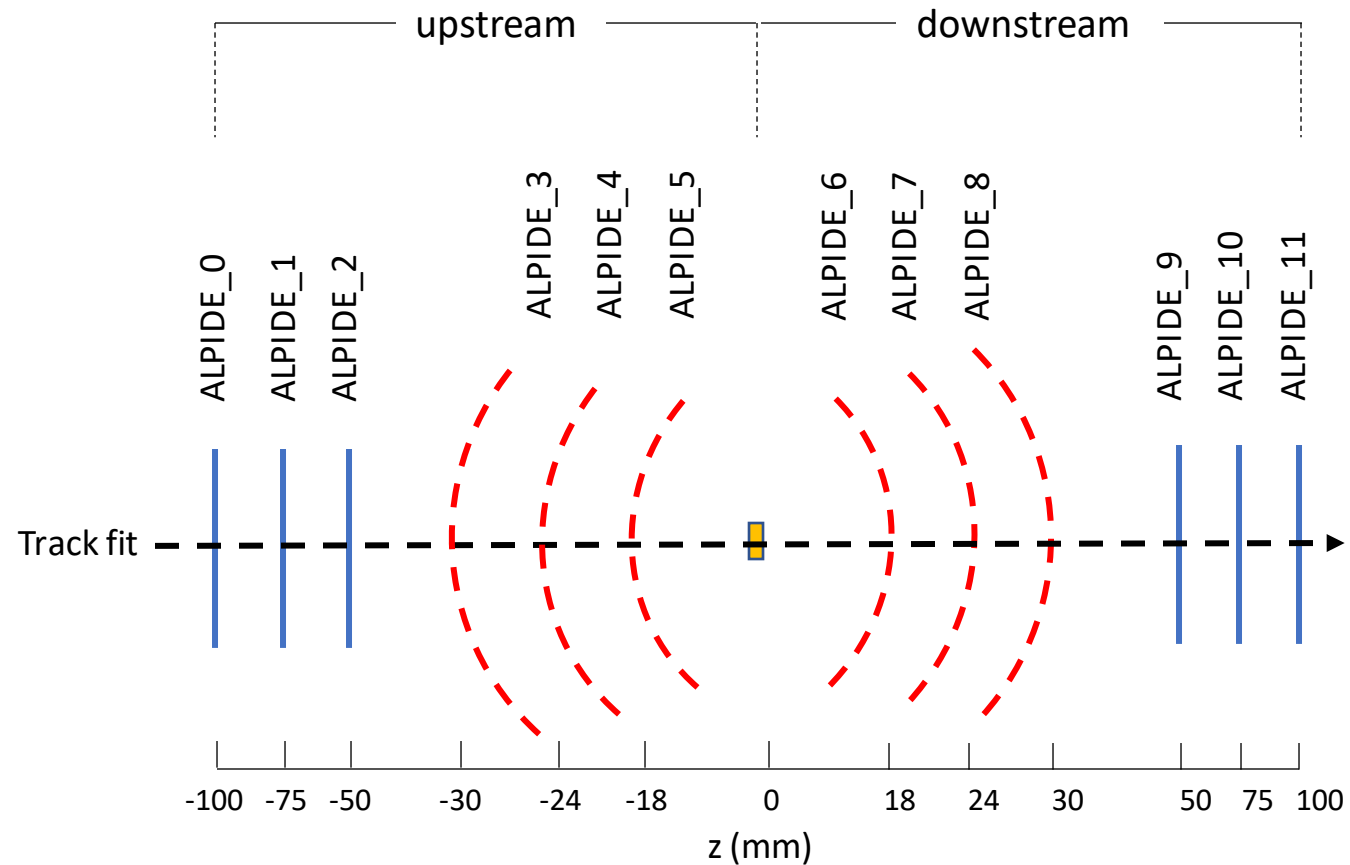


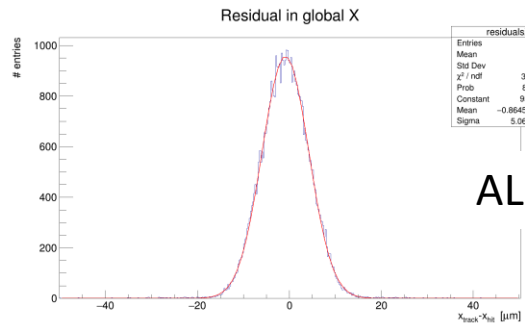
DUTs analyzed one at the time ignoring the rest



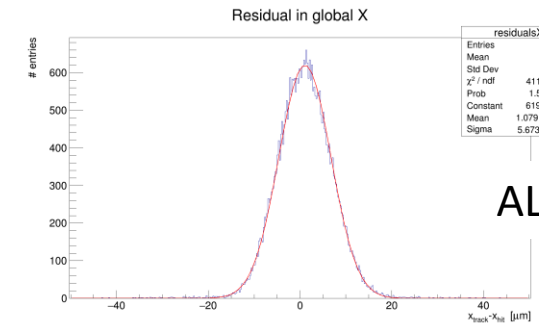
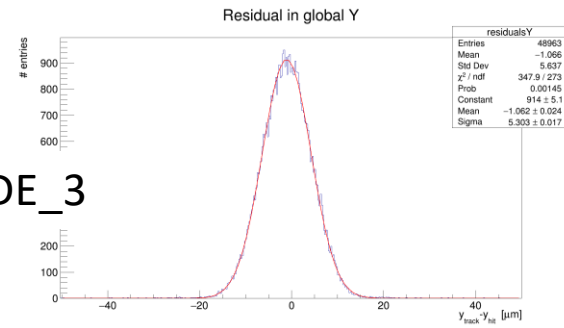


All DUTs analyzed together using the updated geometry from the previous steps

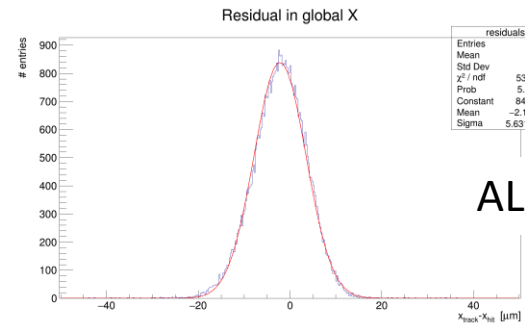
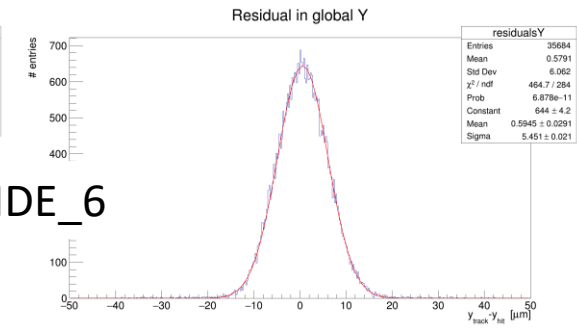




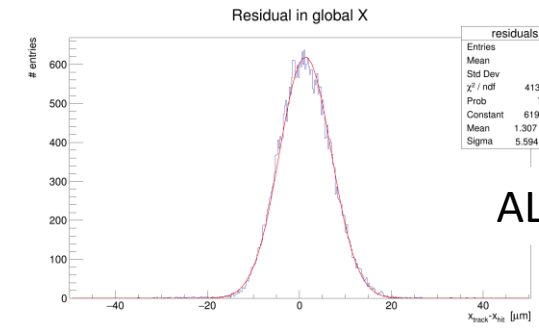
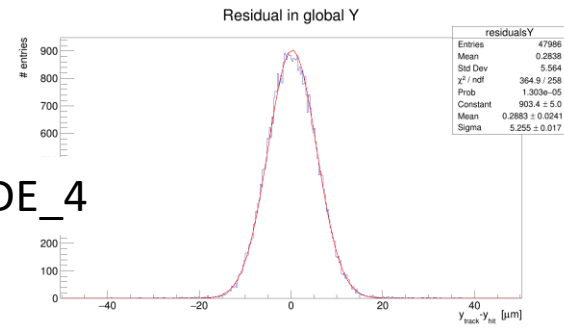
ALPIDE_3



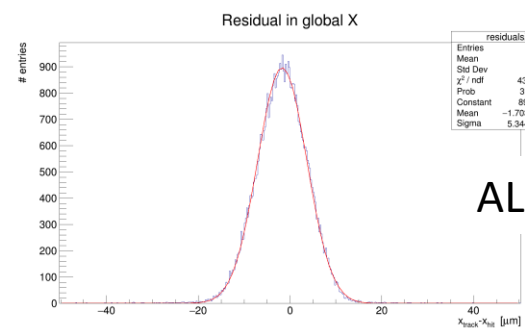
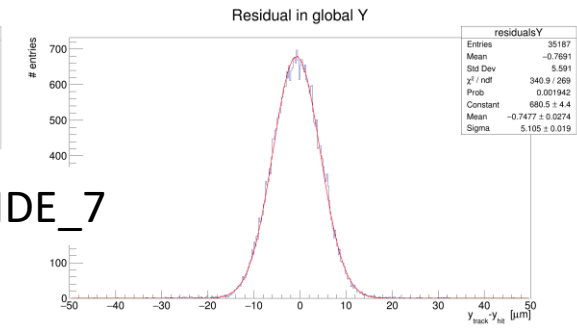
ALPIDE_6



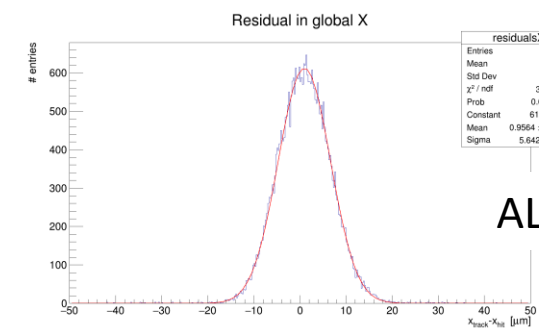
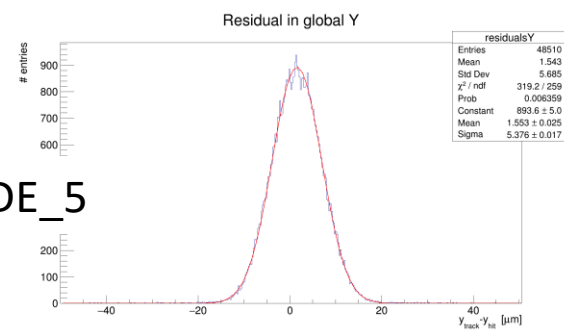
ALPIDE_4



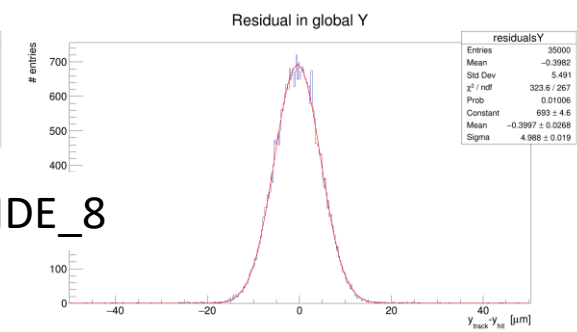
ALPIDE_7



ALPIDE_5



ALPIDE_8



DUT	Tracking with REFs + DUTs				Tracking with REFs			
	Mean residual distribution fit		Sigma residual distribution fit		Mean residual distribution fit		Sigma residual distribution fit	
	x (μm)	y (μm)	x	y	x	y	x	y
ALPIDE_3	0.0459	0.3928	4.21	4.308	-0.8645	-1.062	5.063	5.303
ALPIDE_4	-0.1234	1.365	4.371	4.8	-2.18	0.2883	5.631	5.255
ALPIDE_5	-0.0086	1.304	4.222	4.82	-1.703	1.553	5.344	5.376
ALPIDE_6	0.1969	0.9885	4.566	4.937	1.079	0.5945	5.673	5.451
ALPIDE_7	0.2292	0.0372	4.431	4.408	1.307	-0.7477	5.594	5.105
ALPIDE_8	0.0895	0.0424	4.389	4.33	0.9564	-0.3997	5.642	4.988