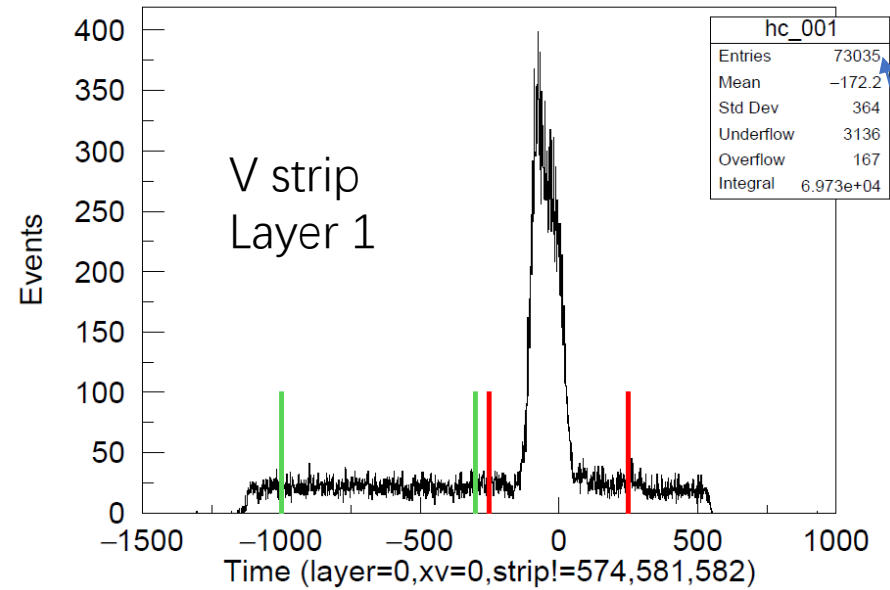


Progress Report

Jingyi Zhao, Linghui Wu, Liangliang Wang, Ryan Mitchell

Nov. 11, 2019



$$\text{Occupancy} = (N^{\text{hit}} - N^{\text{sig}}) / (N^{\text{evt}} * N^{\text{strip}})$$

N^{hit} : entries of histogram

N^{sig} : (entries in signal region) – (number of bkg estimated using sideband)

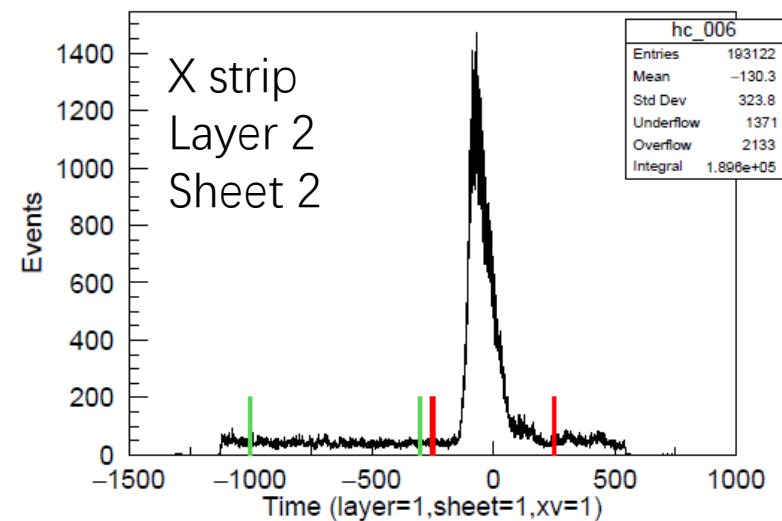
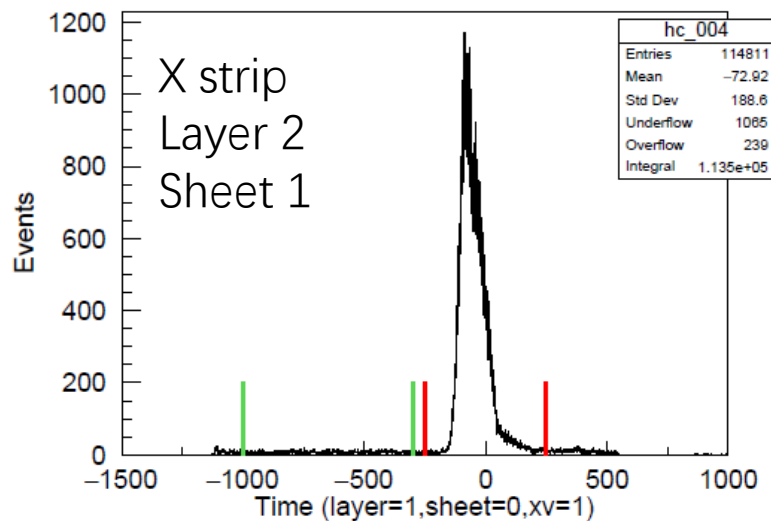
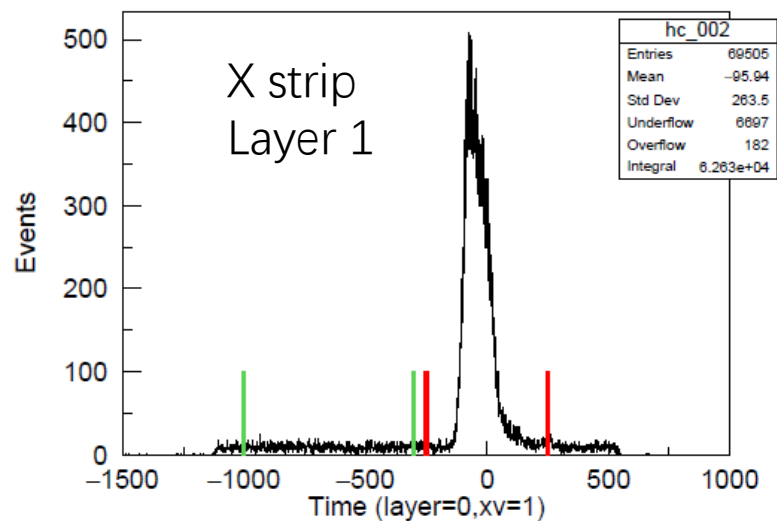
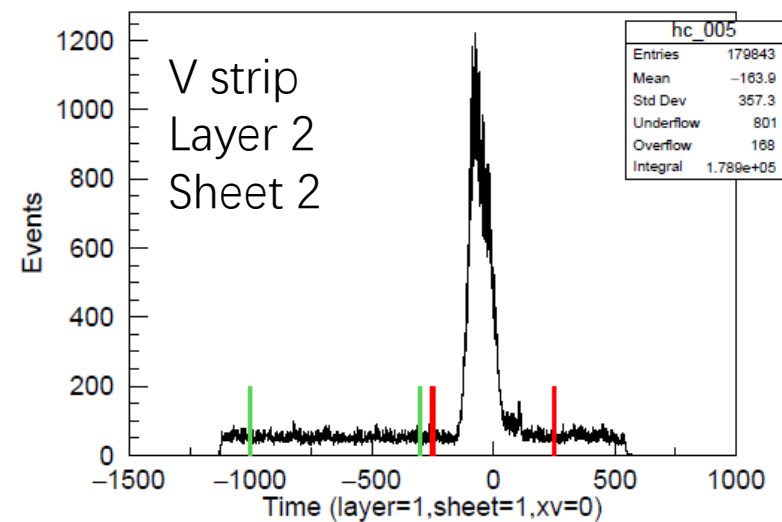
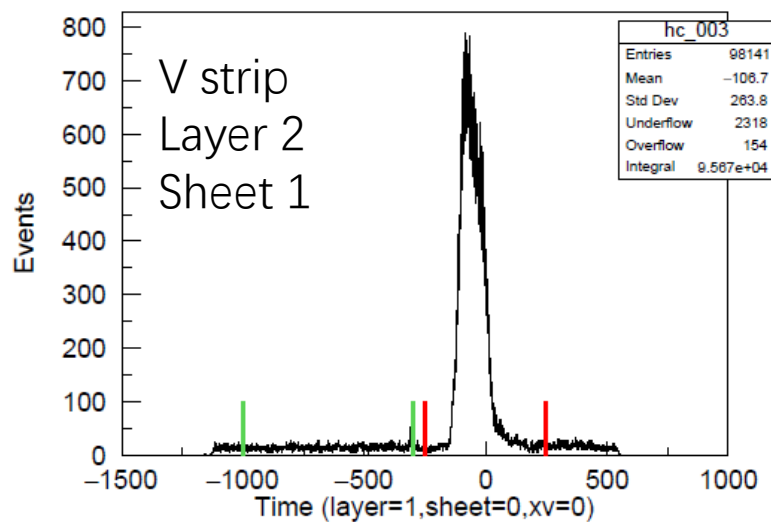
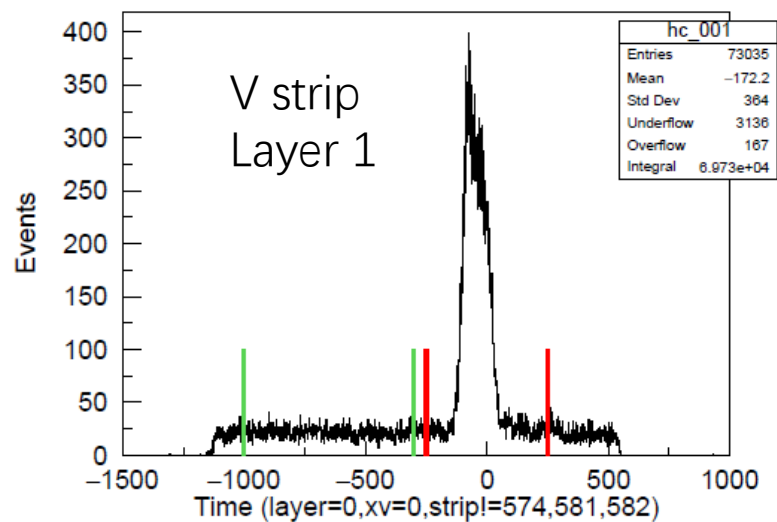
Run	Layer/Sheet	Strip type	N ^{hit}	N ^{sig}	N ^{evt}	N ^{strip}	Occupancy (10 ⁻⁴)
1	Layer 1	V	73035	34192	30350	1173	10.91±0.06
		X	69505	47262	30350	856	8.56±0.06
	Layer 2, Sheet 1	V	98141	71253	30350	1077	8.23±0.05
		X	114811	100246	30350	630	7.62±0.06
	Layer 2, Sheet 2	V	179843	93180	30350	1077	26.51±0.09
		X	193122	119797	30350	630	38.35±0.14
2	Layer 1	V	220643	55466	31604	1173	44.56±0.11
		X	206402	78682	31604	856	47.21±0.13
	Layer 2, Sheet 1	V	118725	91019	31604	1077	8.14±0.05
		X	138884	121284	31604	630	8.84±0.07
	Layer 2, Sheet 2	V	153729	108685	31604	1077	13.23±0.06
		X	161158	131038	31604	630	15.13±0.09
3	Layer 1	V	183585	55772	28327	1173	38.47±0.11
		X	185181	82791	28327	856	42.23±0.13
	Layer 2, Sheet 1	V	118897	90870	28327	1077	9.19±0.05
		X	137087	117414	28327	630	11.02±0.08
	Layer 2, Sheet 2	V	156739	110848	28327	1077	15.04±0.07
		X	163556	126340	28327	630	20.85±0.11
4	Layer 1	V	269207	102189	44072	1173	32.31±0.08
		X	270740	154768	44072	856	30.74±0.09
	Layer 2, Sheet 1	V	224989	182810	44072	1077	8.89±0.04
		X	246839	216617	44072	630	10.88±0.06
	Layer 2, Sheet 2	V	272897	213768	44072	1077	12.46±0.05
		X	279997	233999	44072	630	16.57±0.08

Based on ReadCosmicRayData-00-00-04
To be updated...

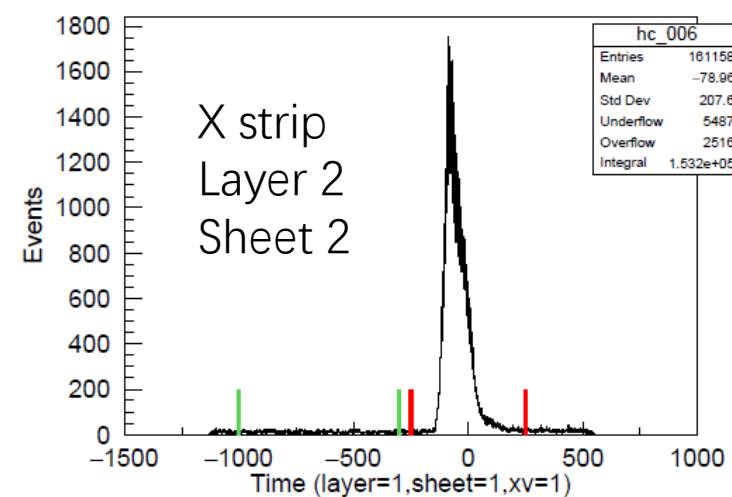
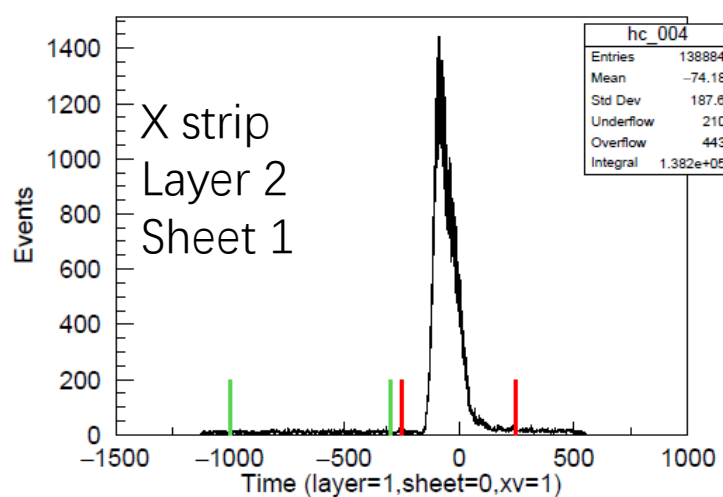
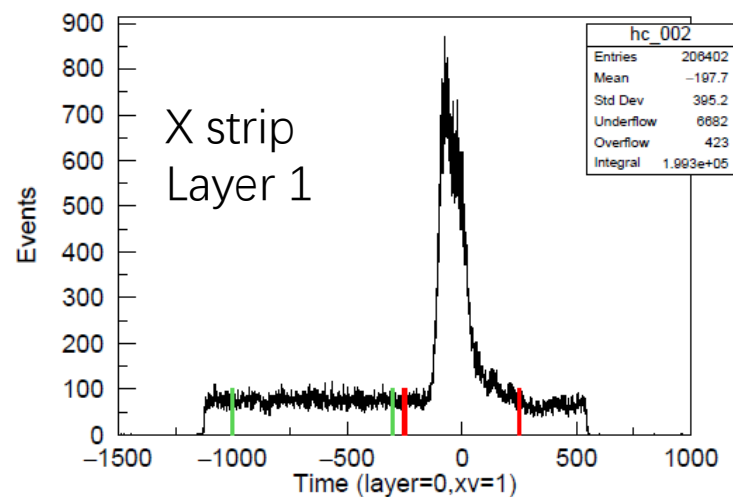
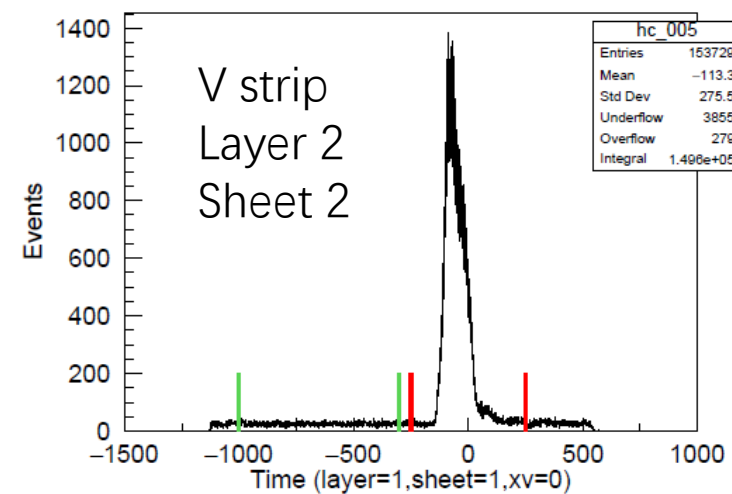
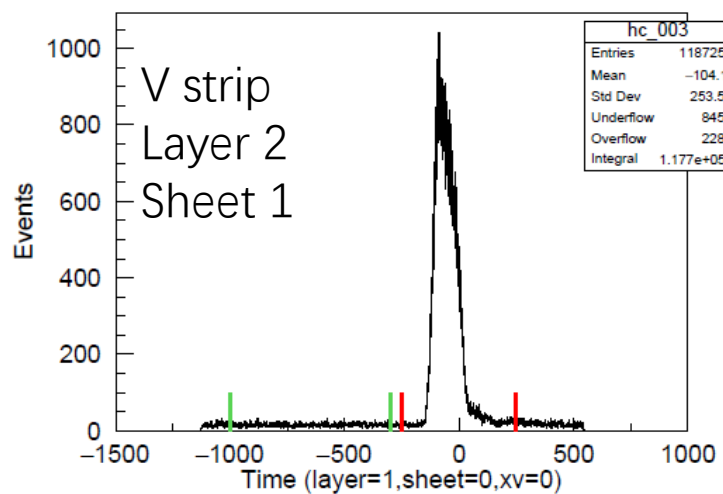
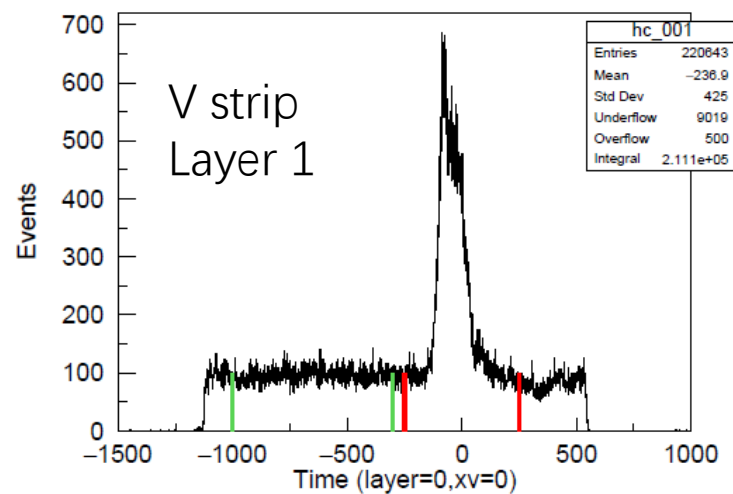
Thank you!

Back Up

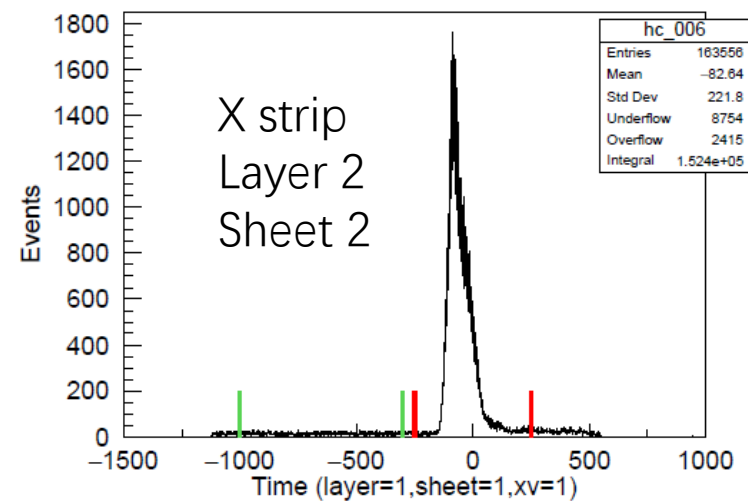
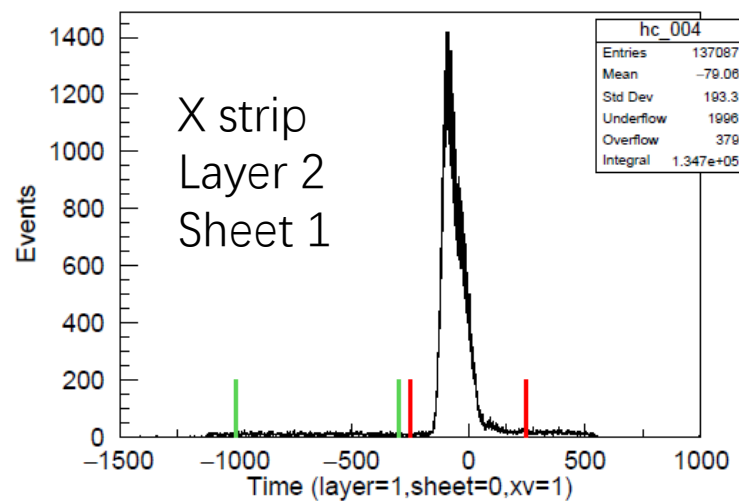
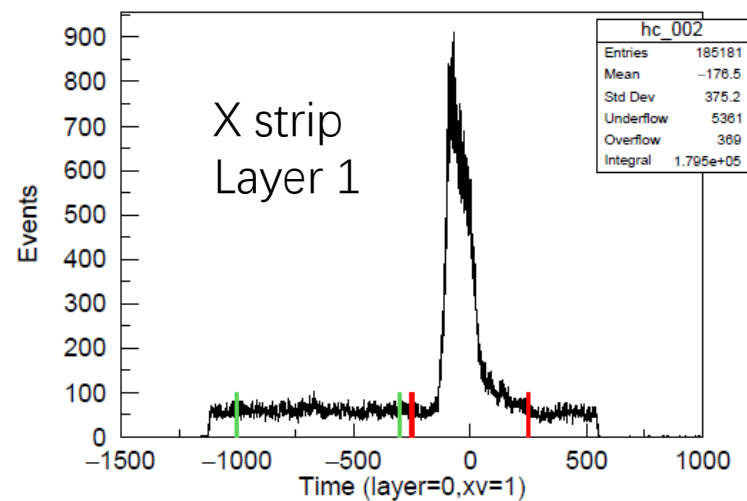
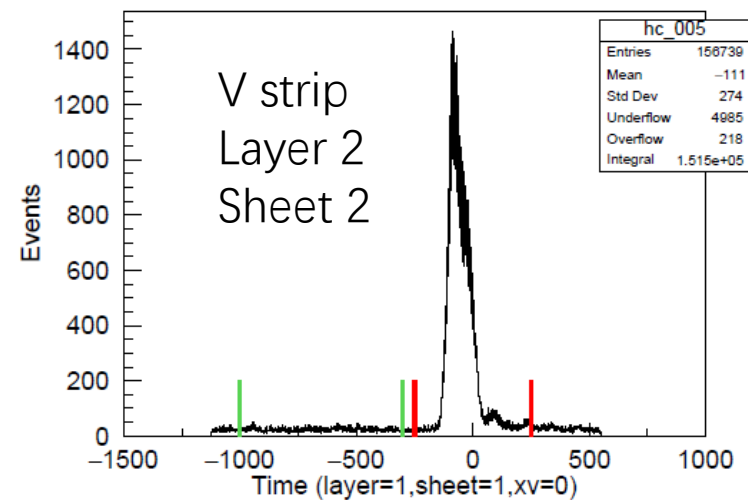
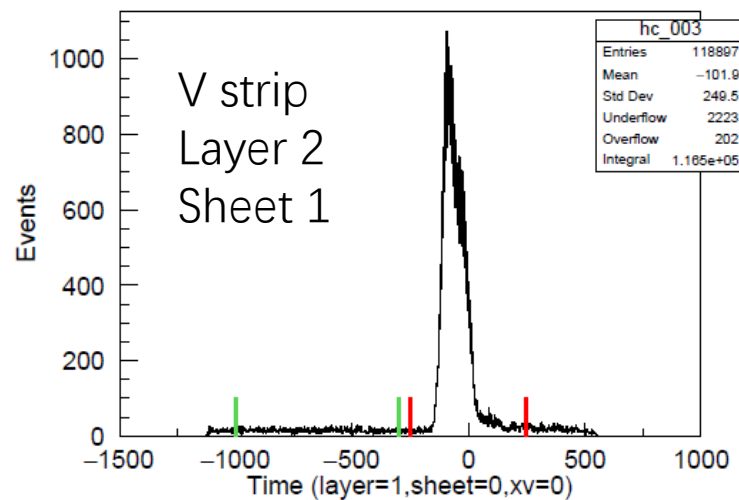
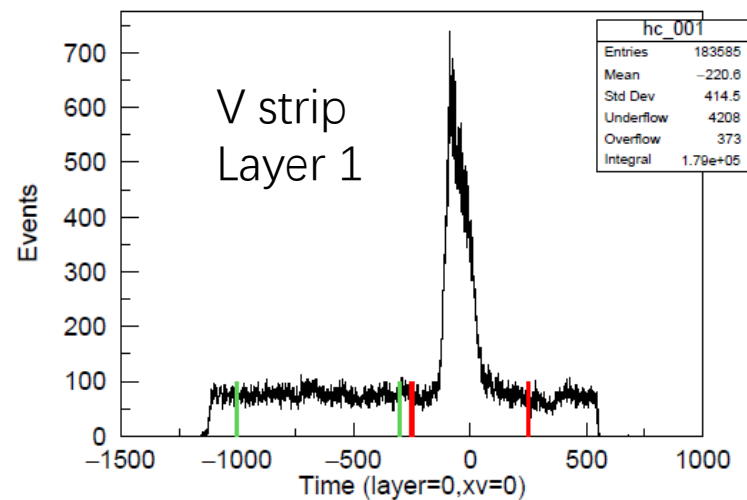
Run 1



Run 2



Run 3



Run 4

