

ACROMASS

Moduli traccianti

25 Febbraio 2025

Piani traccianti

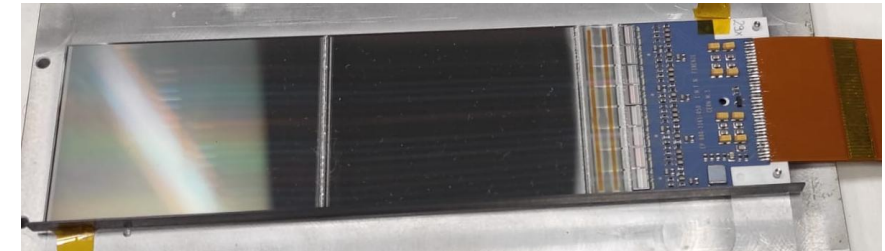
- ADAMO:

- 3: tra i migliori dopo il primo test, non lavorato, ora non funzionante ←
- 4: tra i migliori dopo il primo test, OK
- 7: un chip con sigma a 0, OK
- 8: un chip con ped e sigma a 0, OK
- 2: 2 chip x a guadagno ridotto, metà y con sigma alte e ped strani ←



- PAMELA:

- 29: rottura x dopo 4h di acquisizione continuata ←
- 39: OK
- 22: assemblato nuovo partendo da ibrido, OK
- C1: non funzionante ←

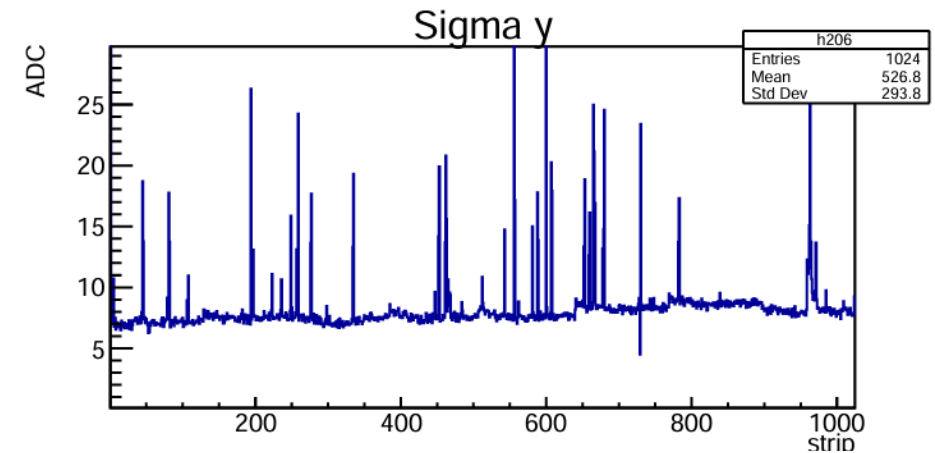
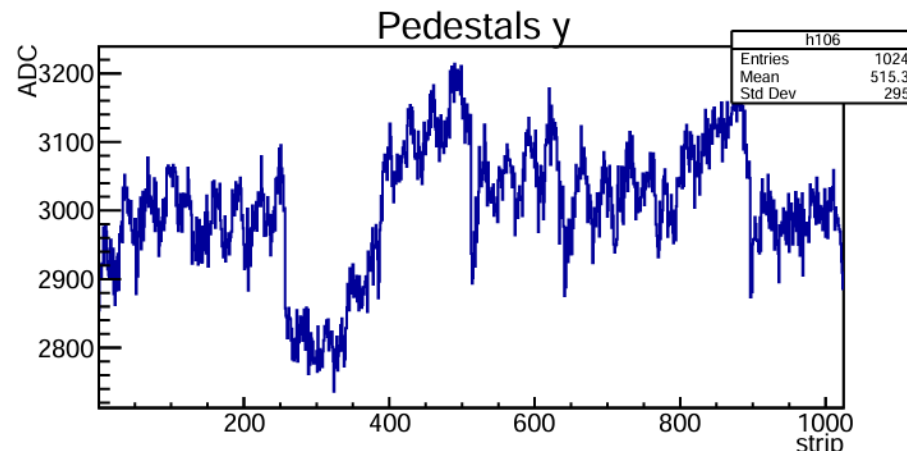
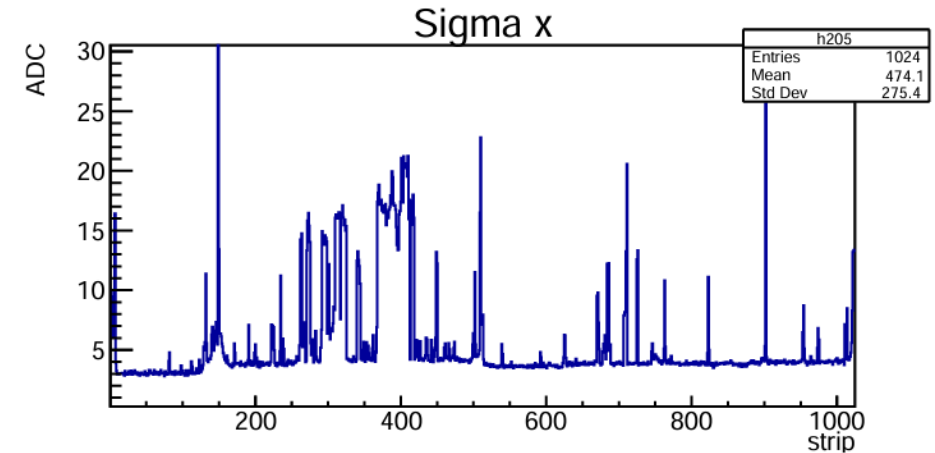
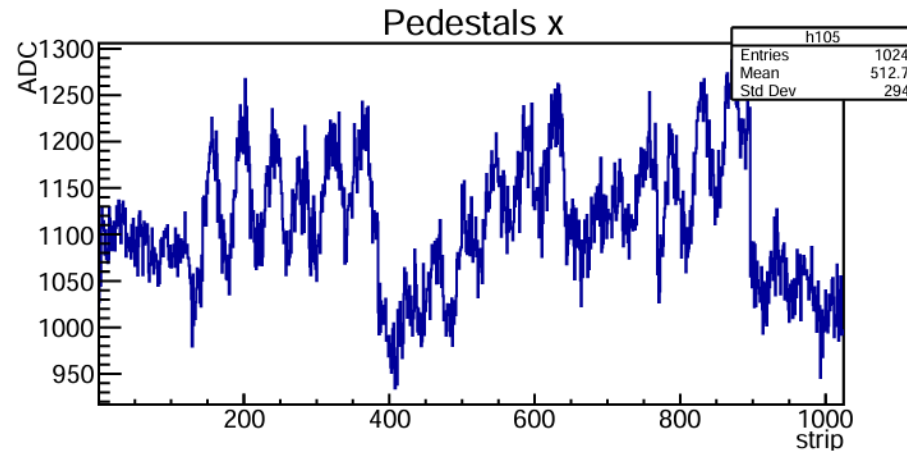


- Ibridi:

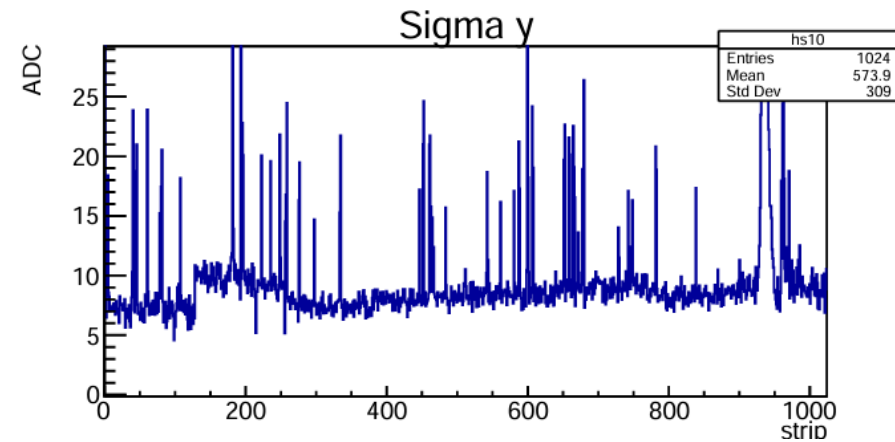
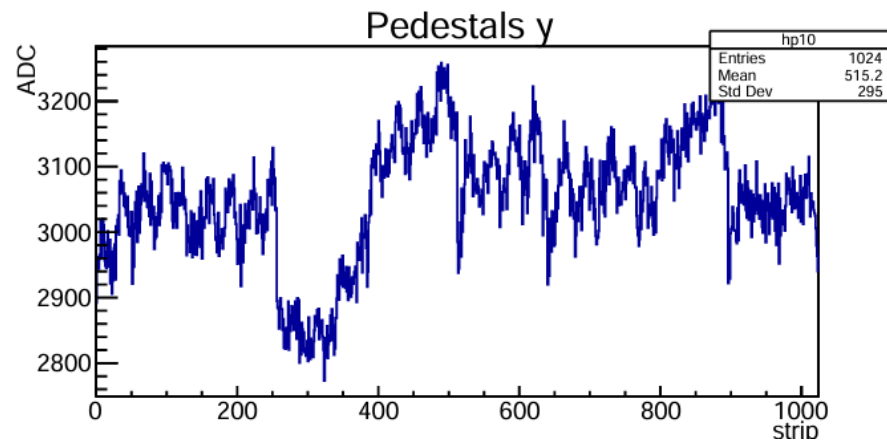
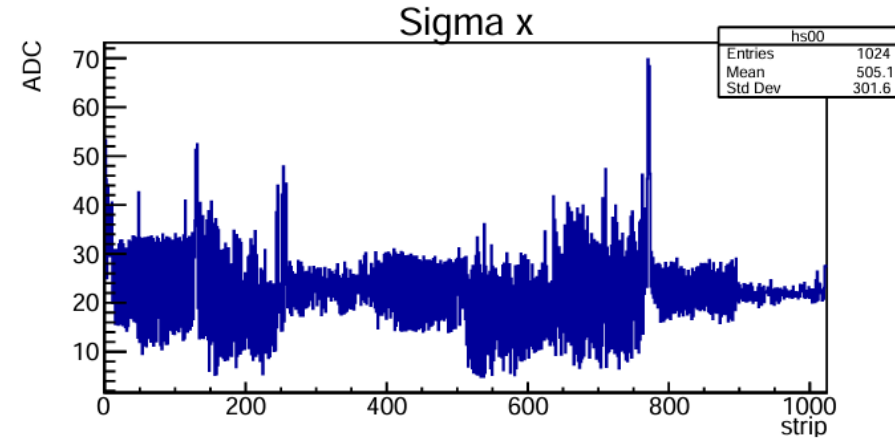
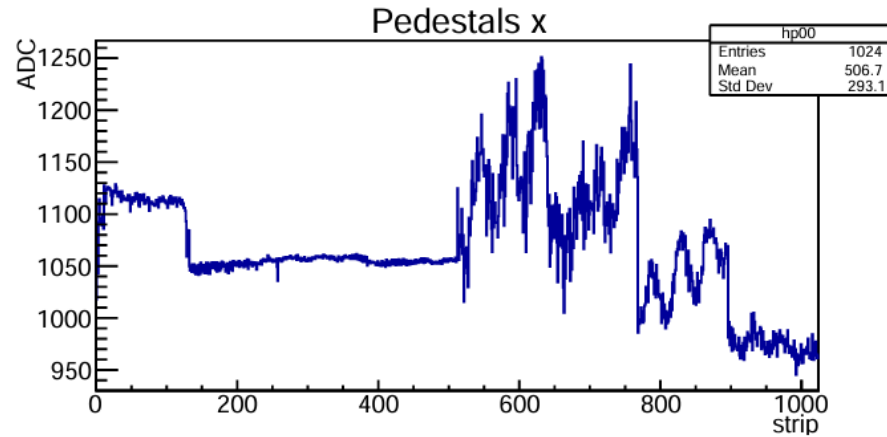
- 40: buono ma molte riparazioni su lato x, OK
- 20, 23, 28, 30: problemi da test miei o del 2001
- 41: non funzionante chip 2x ←
- 43: non funzionante chip 4y e 8y ←

C1, 40, 41, 43 non danneggiati
dopo 25 ore di alimentazione

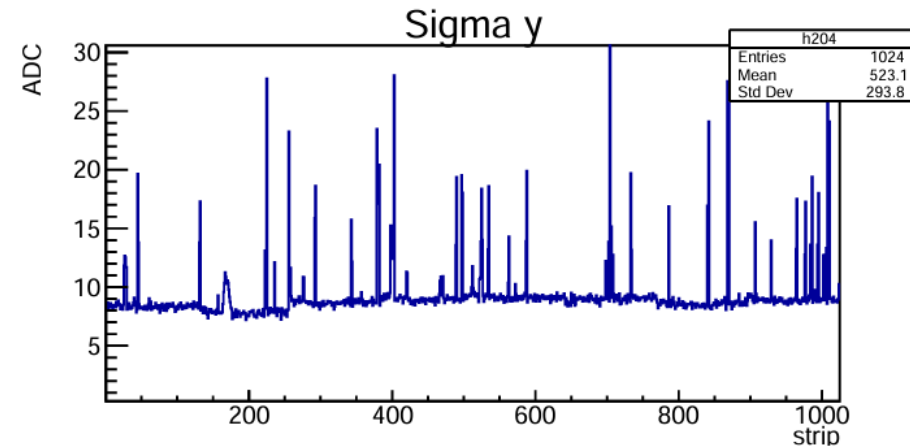
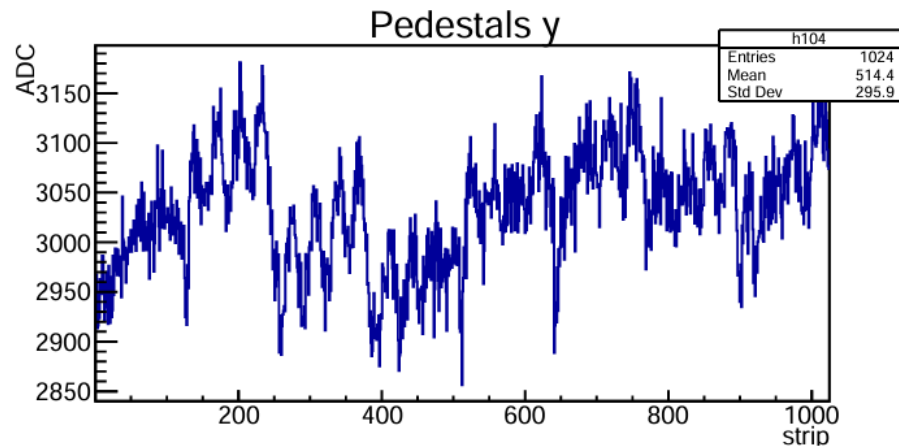
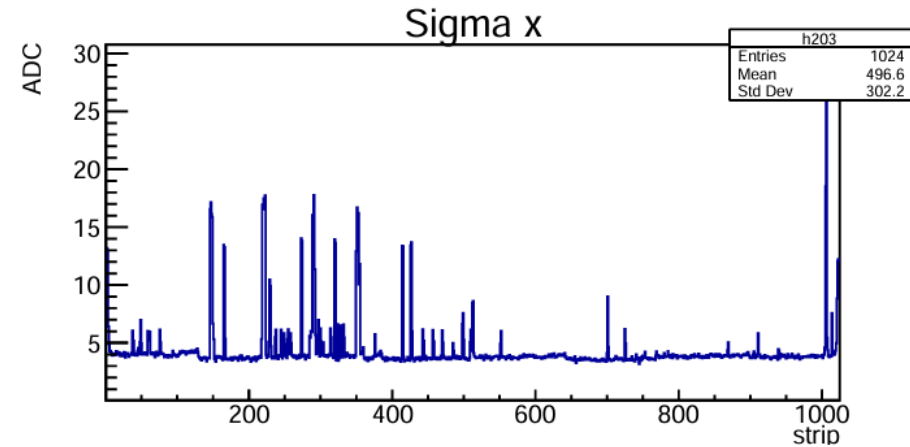
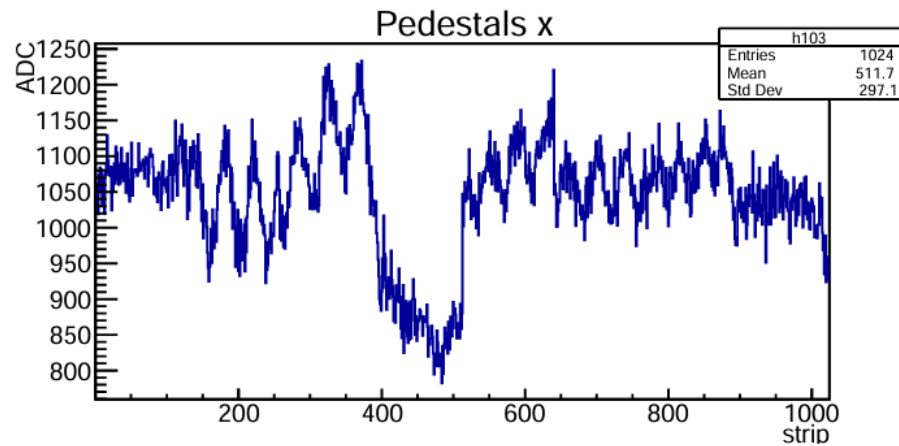
Modulo 3 – pre rotture



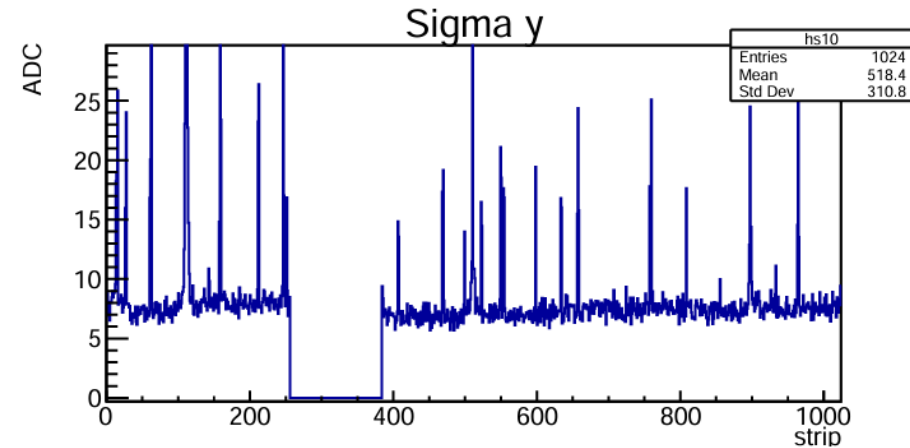
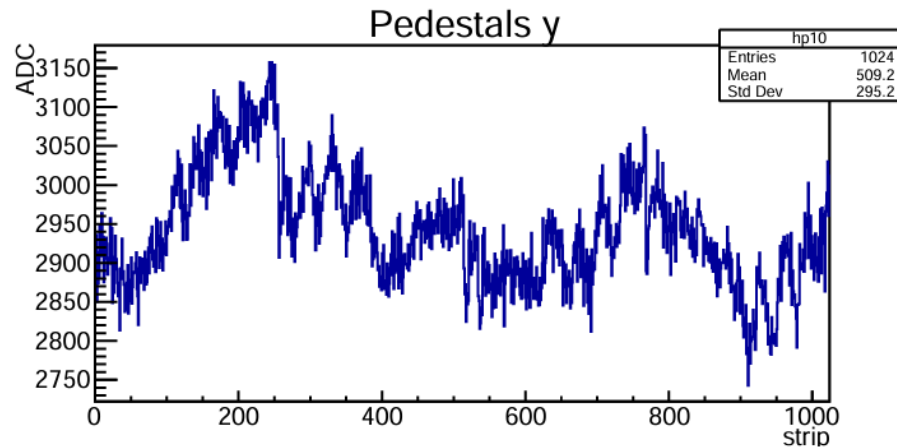
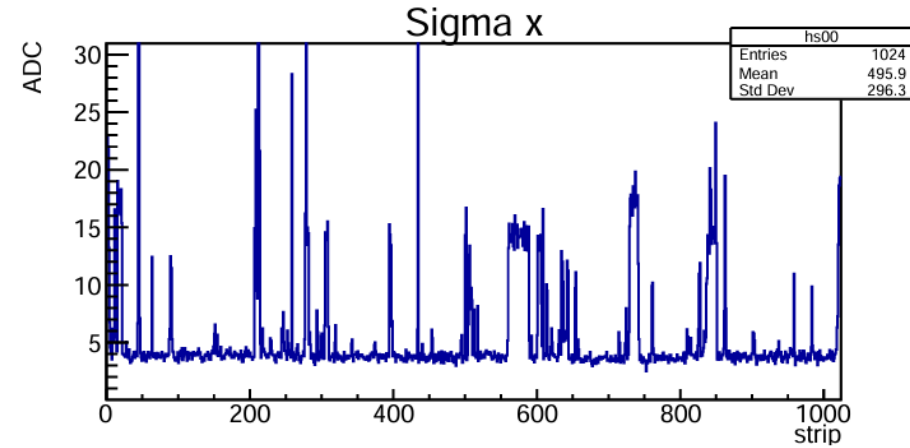
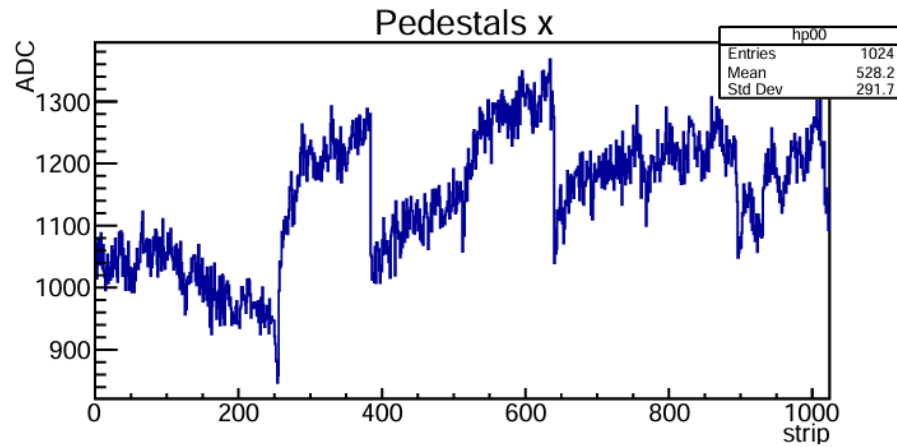
Modulo 3 – 11Feb25



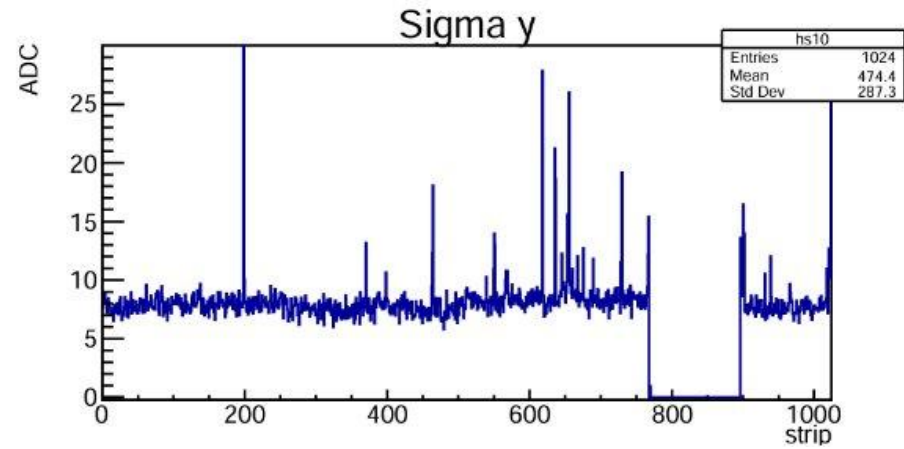
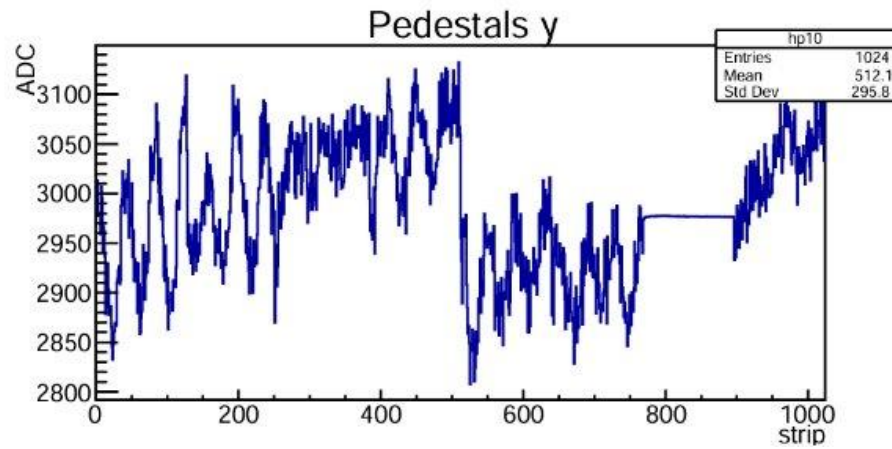
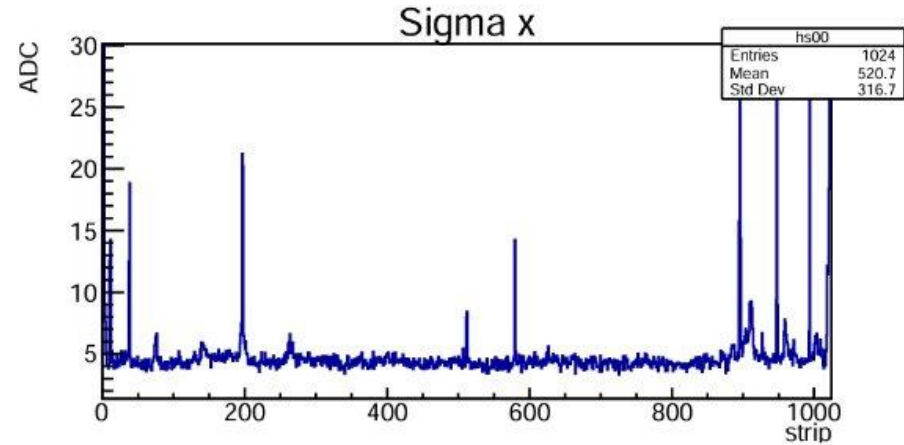
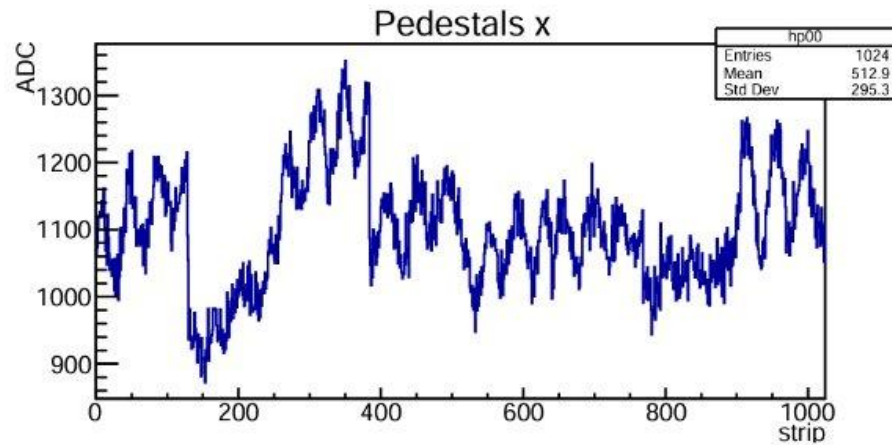
Modulo 4



Modulo 7

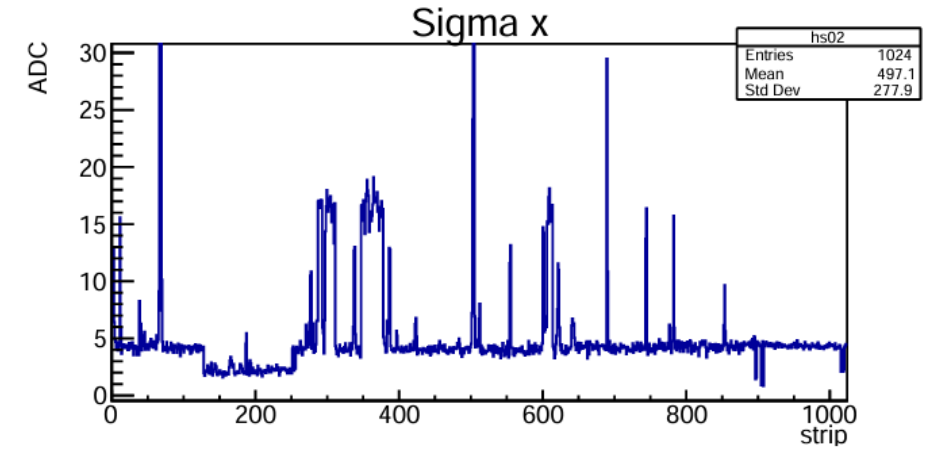
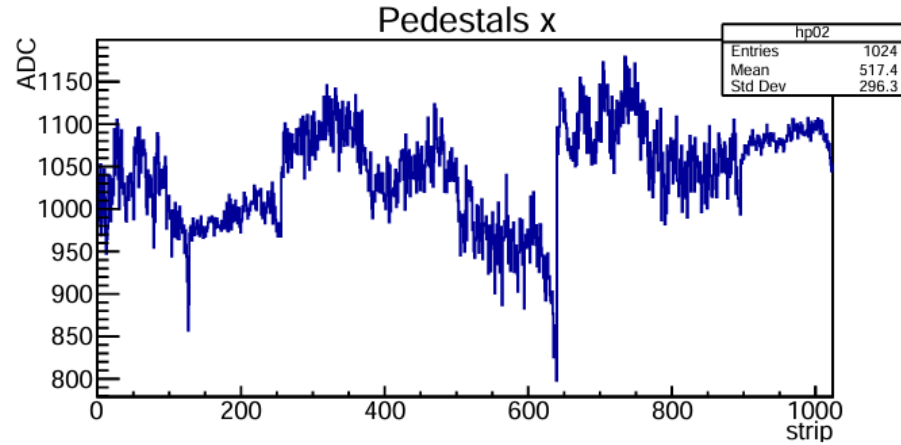


Modulo 8

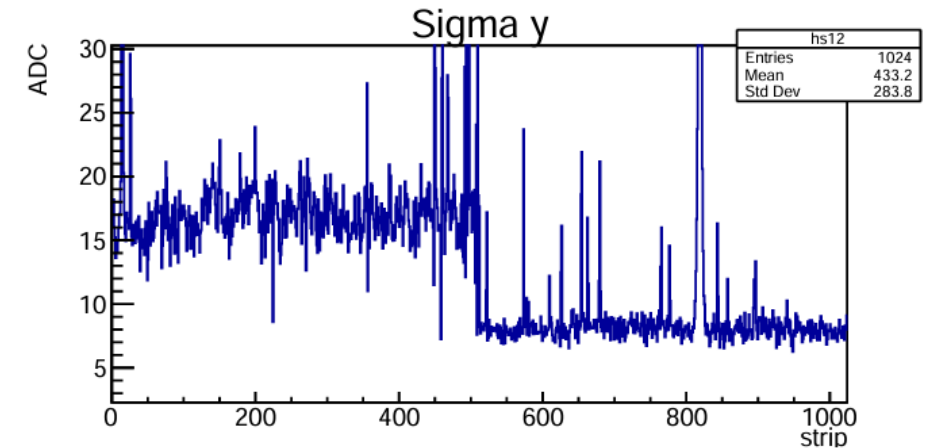
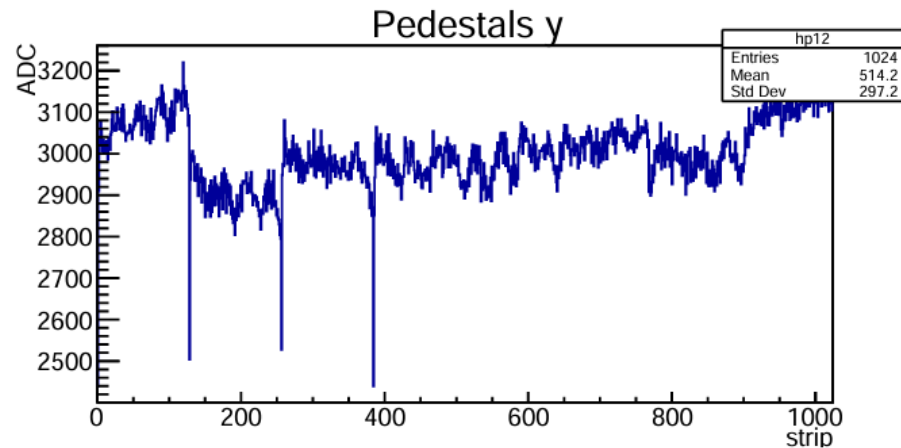


Modulo 2 - 11Feb25

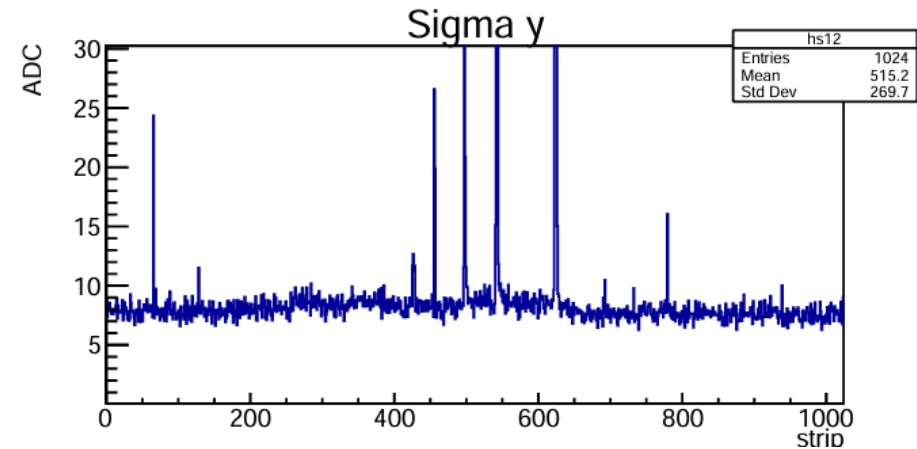
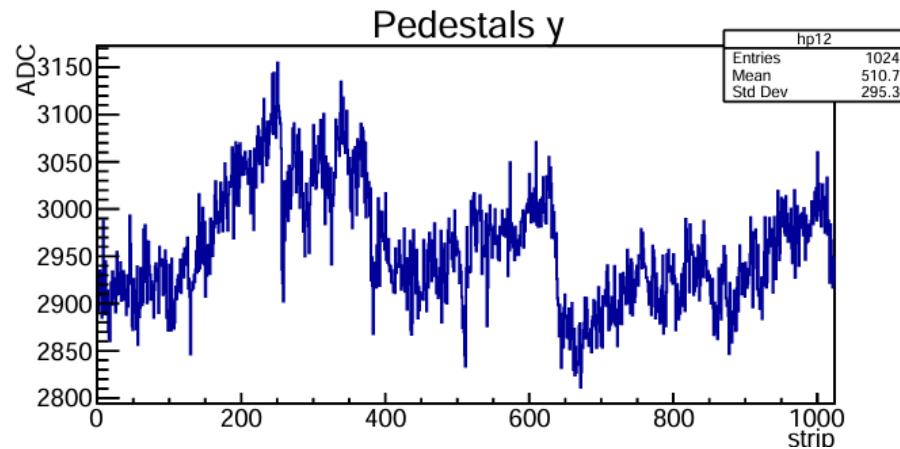
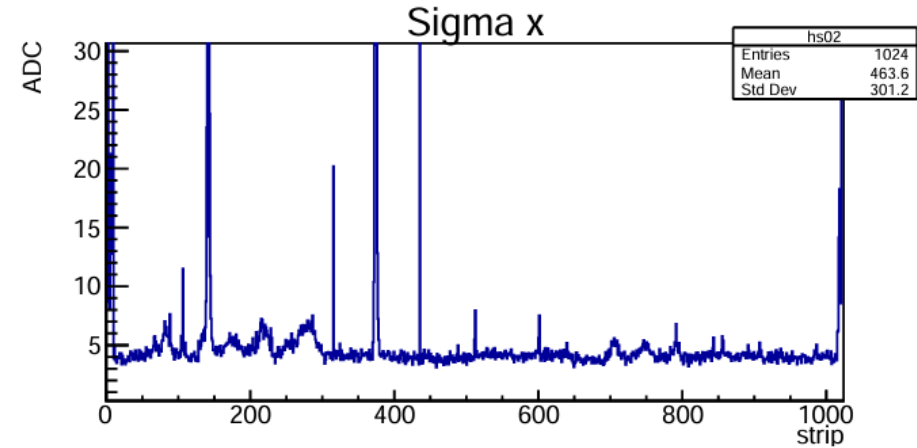
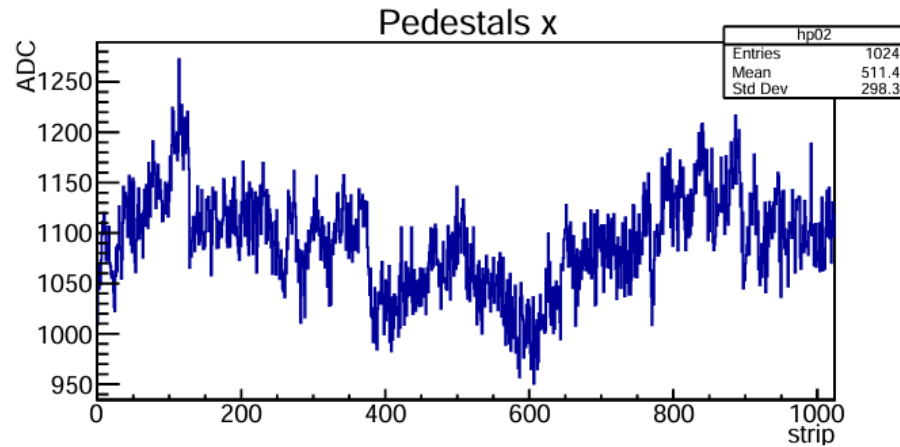
Chip 2 e 8 con ped
e sigma anomali



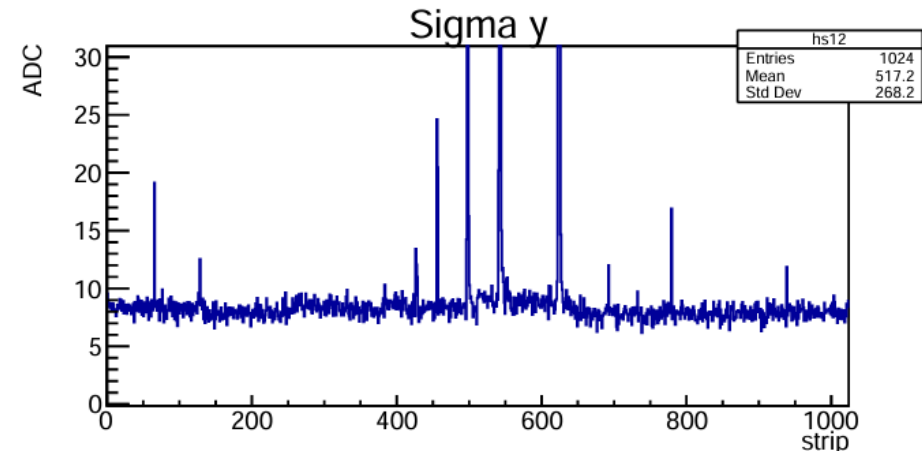
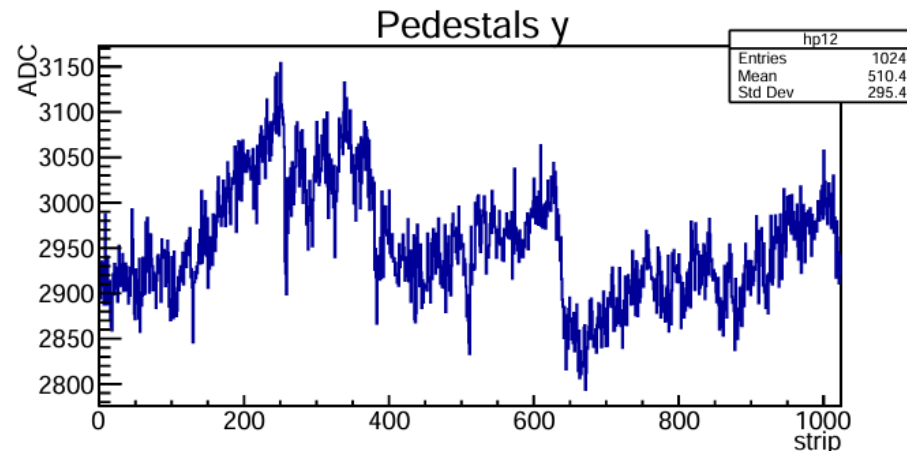
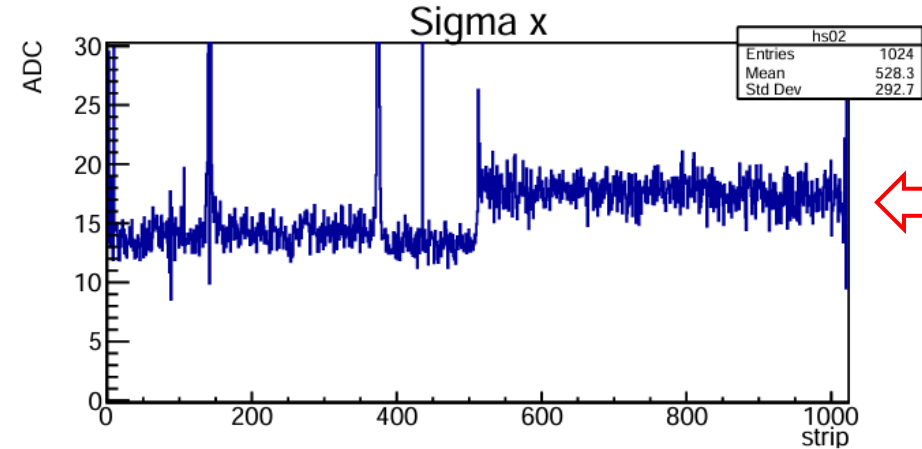
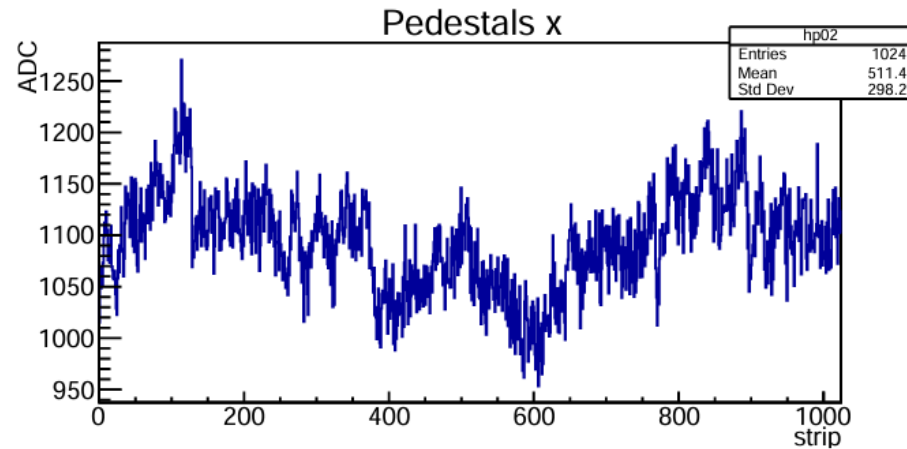
Prima metà con ped
e sigma anomali



Modulo 29 – pre rottura



Modulo 29 – post rottura

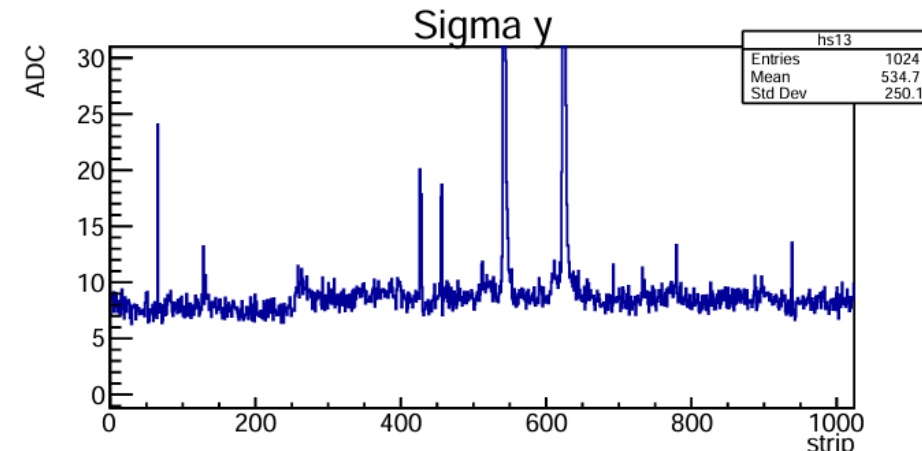
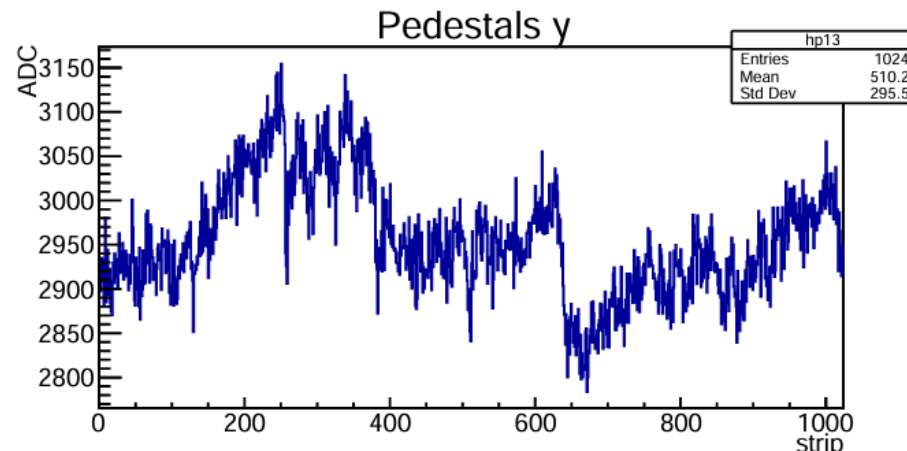
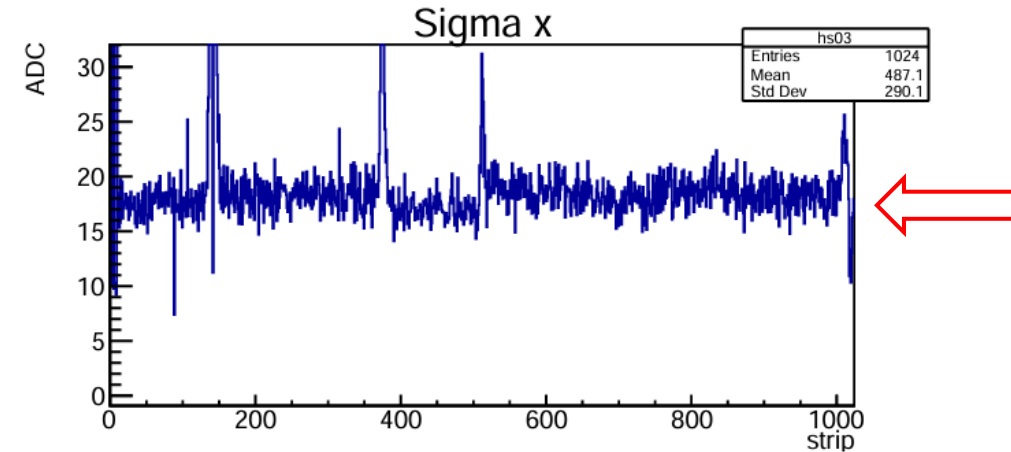
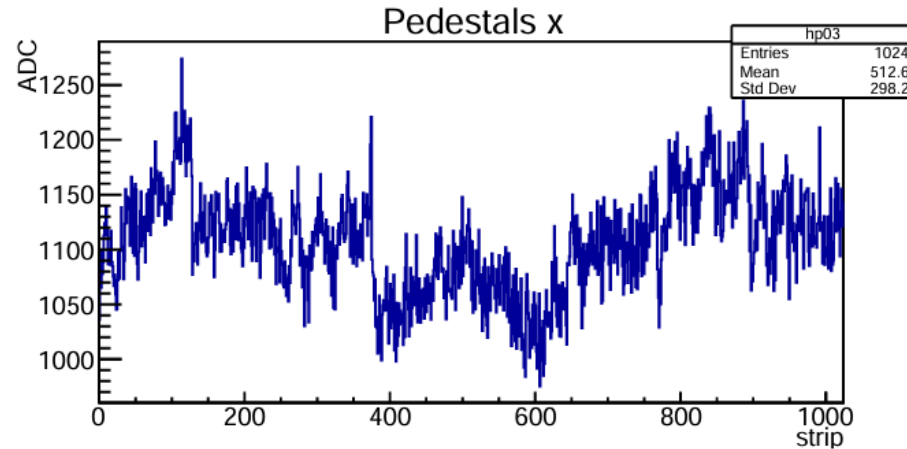


Modulo 29 - 11Feb25

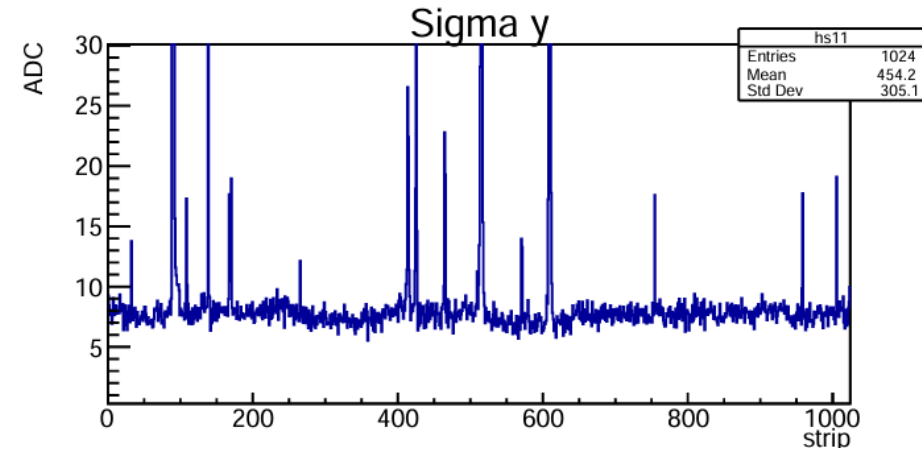
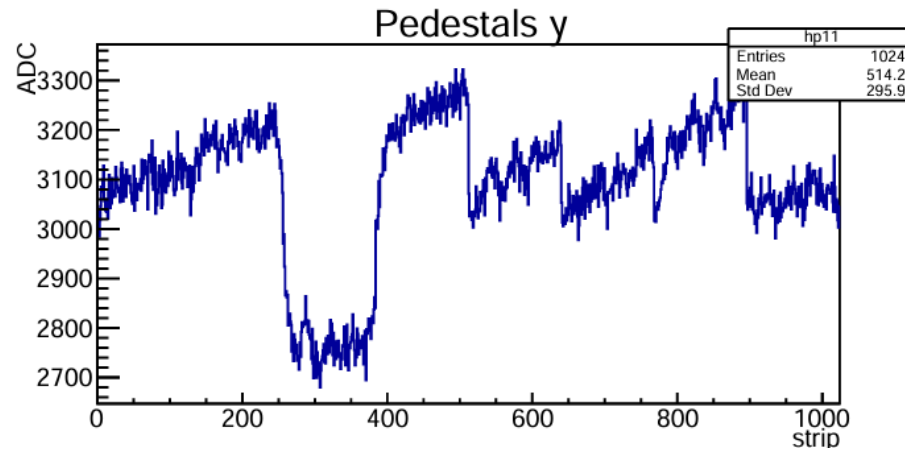
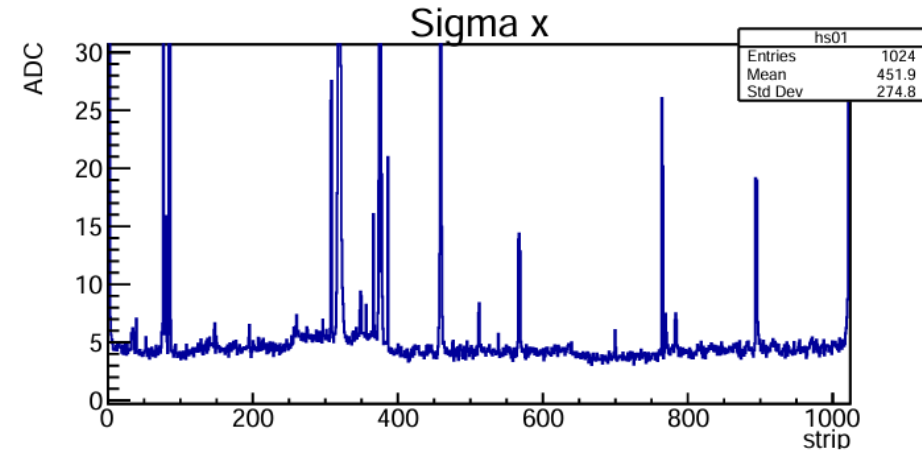
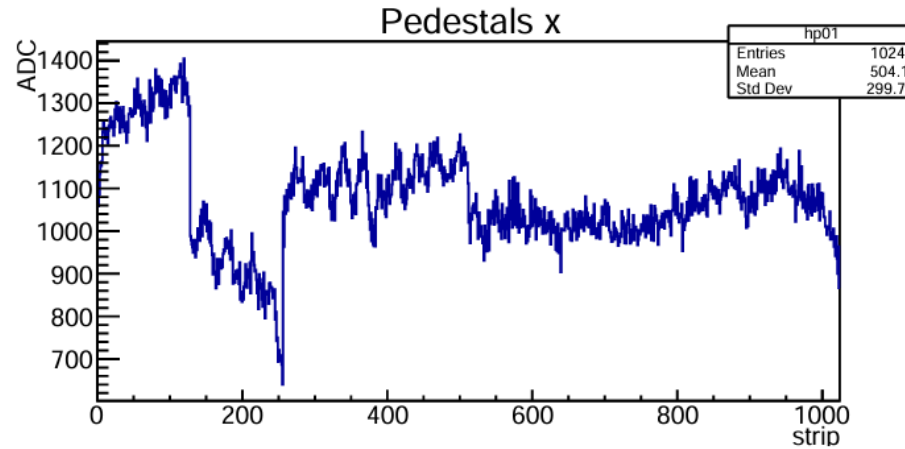
Test elettrico 14/02 lato x

✓ Kapton

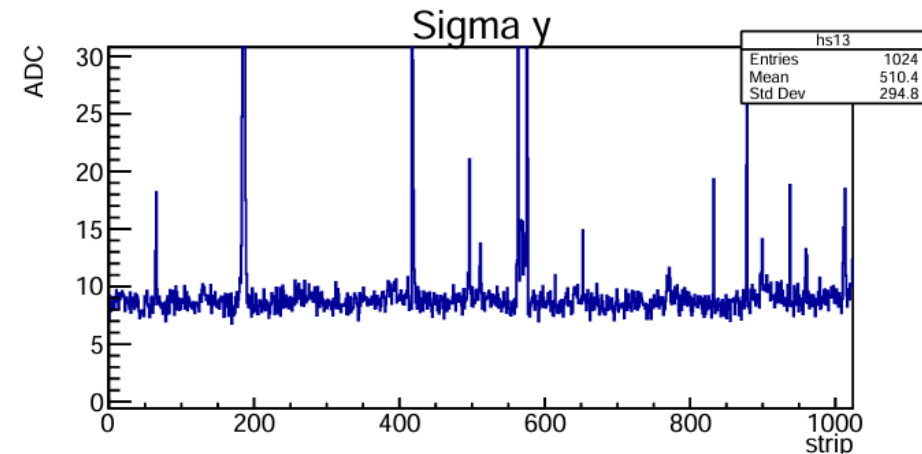
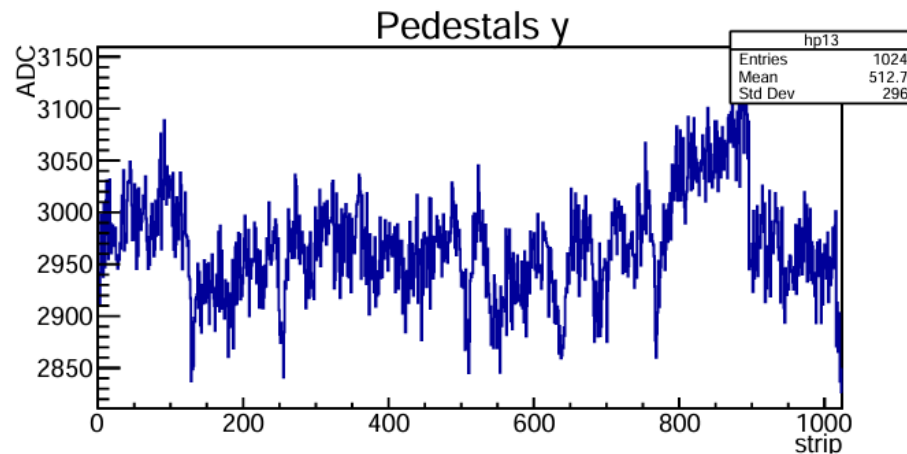
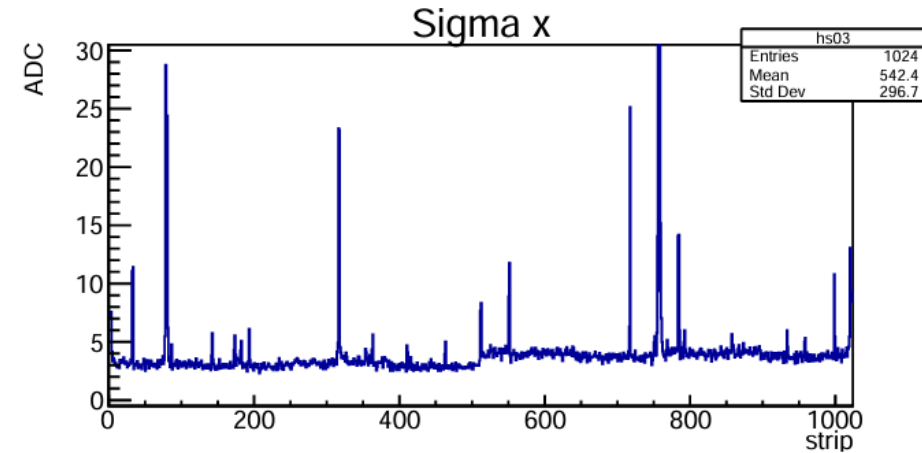
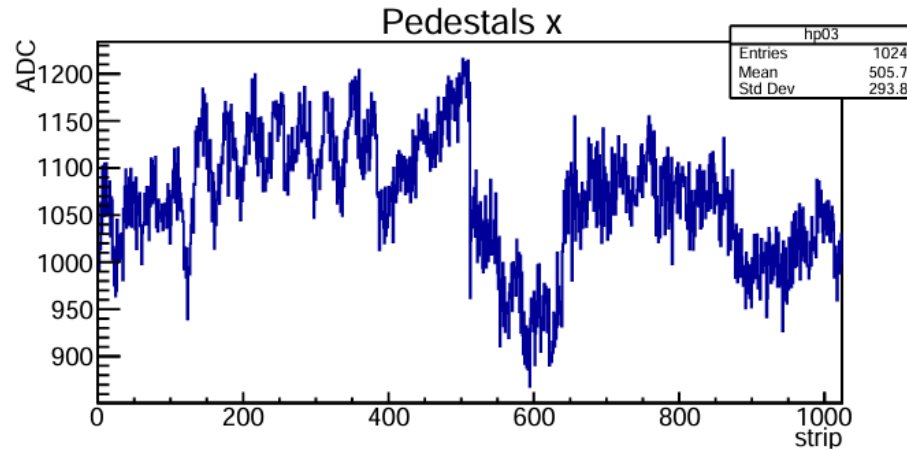
X R5, R16, R17, R38 a 2V anziché 0V
(già visto anche su 2 chip del modC1)



Modulo 39

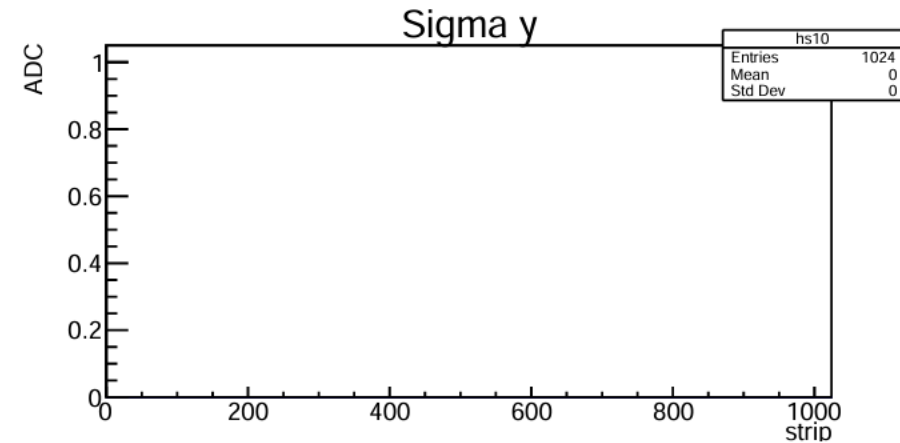
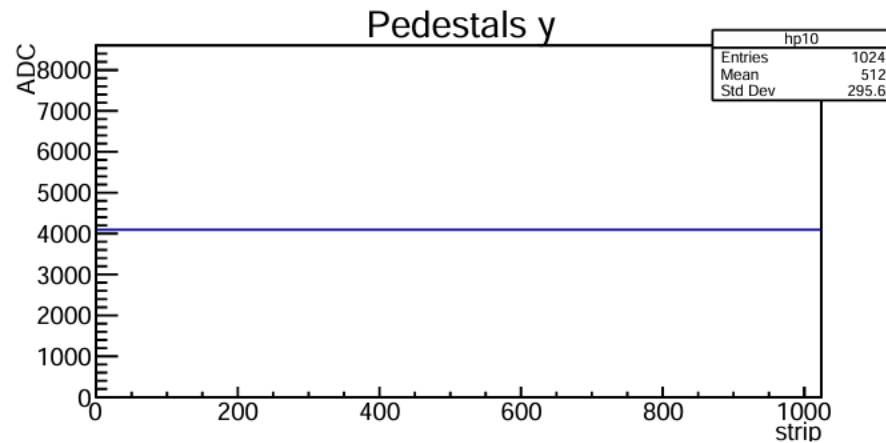
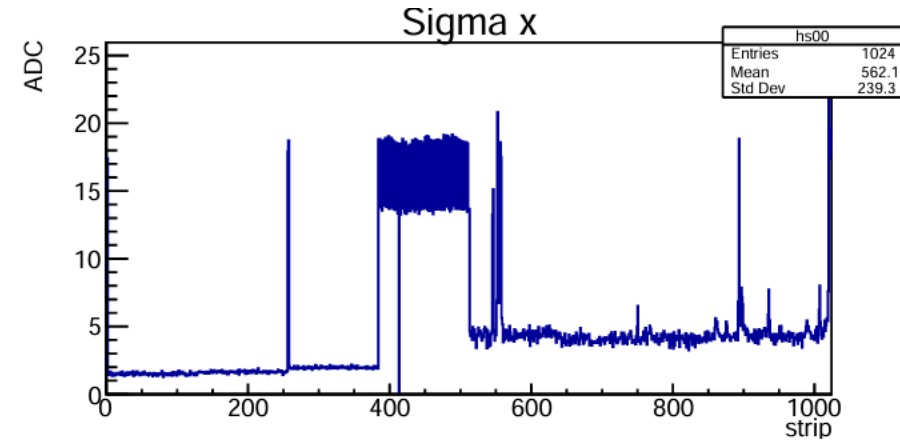
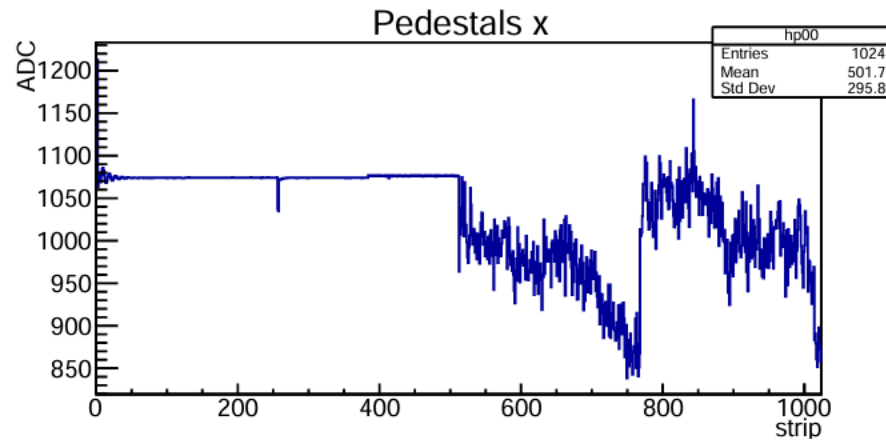


Modulo 22 - 11Feb25



Modulo C1

Solo seconda metà di x funzionante



Efficienze

Tabella 4.2. Efficienze del modulo 29, calcolate prima e dopo la rottura del lato x.

	Silicio esterno		Silicio interno
	Pre-rottura	Post rottura	Post rottura
$\epsilon_x \pm \sigma_{\epsilon_x}$	0.88 ± 0.04	0.24 ± 0.04	0.137 ± 0.013
$\epsilon_y \pm \sigma_{\epsilon_y}$	0.94 ± 0.03	0.94 ± 0.02	0.925 ± 0.010
$\epsilon_L \pm \sigma_{\epsilon_L}$	0.82 ± 0.05	0.24 ± 0.04	0.131 ± 0.013

Tabella 4.3. Efficienze dei moduli 39, 22 e 4 calcolate sui dati della prima acquisizione.

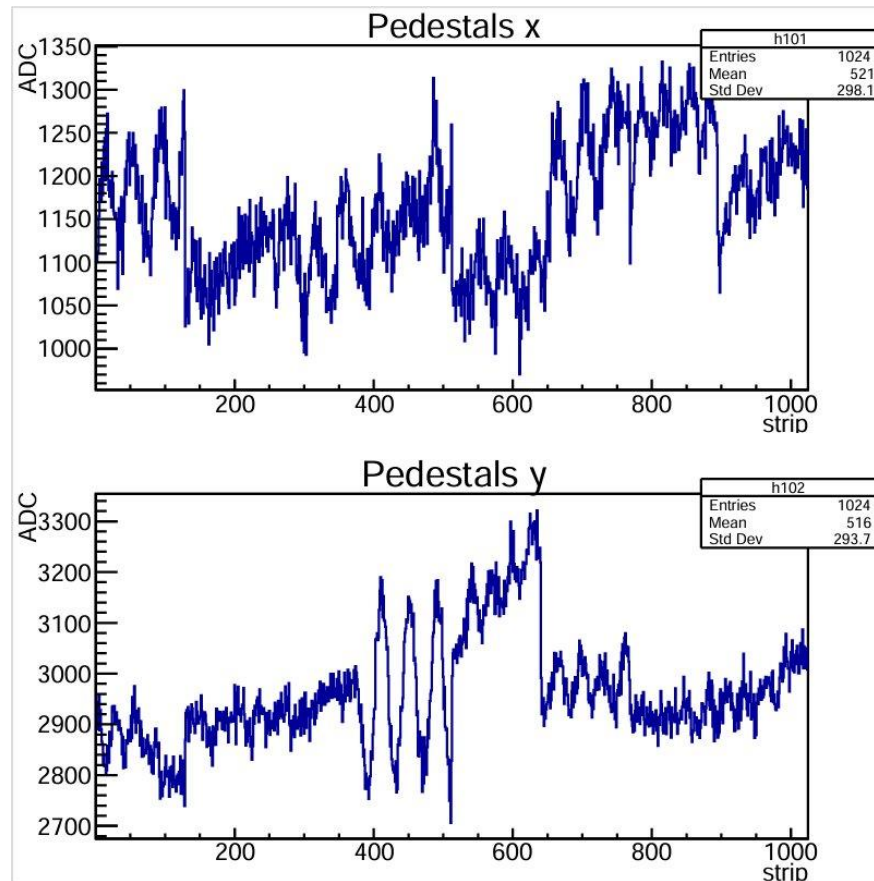
	Silicio	Modulo 39	Modulo 22	Modulo 4
$\epsilon_x \pm \sigma_{\epsilon_x}$	Esterno	0.90 ± 0.03	0.96 ± 0.02	0.89 ± 0.03
	Interno	0.86 ± 0.03	0.91 ± 0.03	0.89 ± 0.04
$\epsilon_y \pm \sigma_{\epsilon_y}$	Esterno	0.90 ± 0.03	0.92 ± 0.03	0.88 ± 0.03
	Interno	0.88 ± 0.03	0.93 ± 0.03	0.90 ± 0.03
$\epsilon_L \pm \sigma_{\epsilon_L}$	Esterno	0.83 ± 0.03	0.88 ± 0.04	0.80 ± 0.03
	Interno	0.79 ± 0.04	0.86 ± 0.04	0.84 ± 0.04

Efficienze

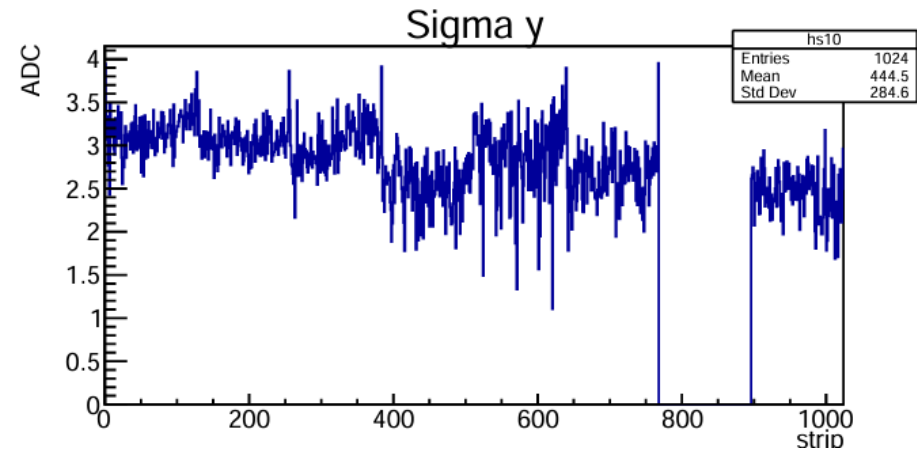
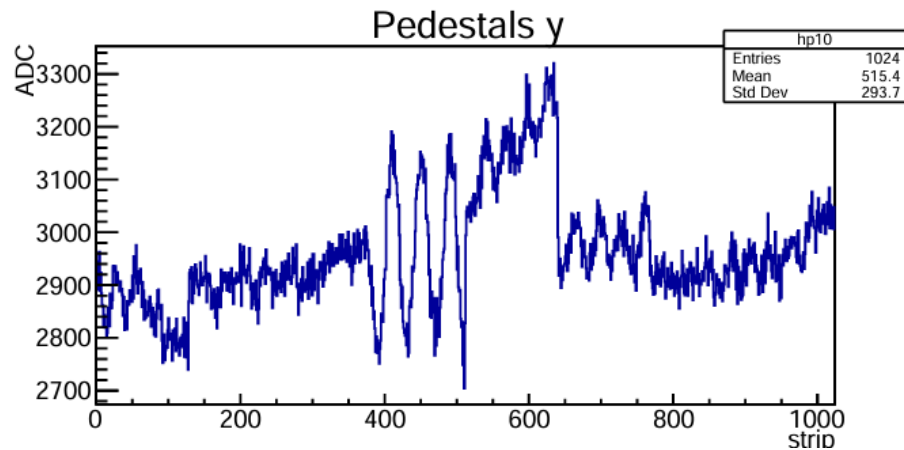
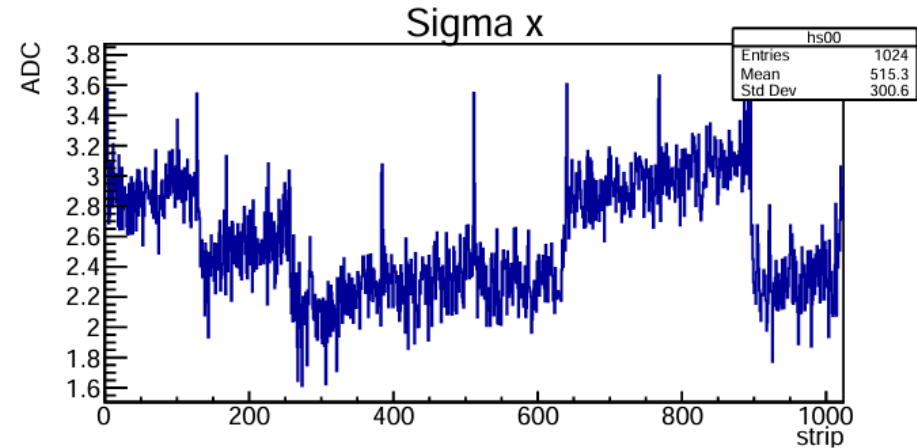
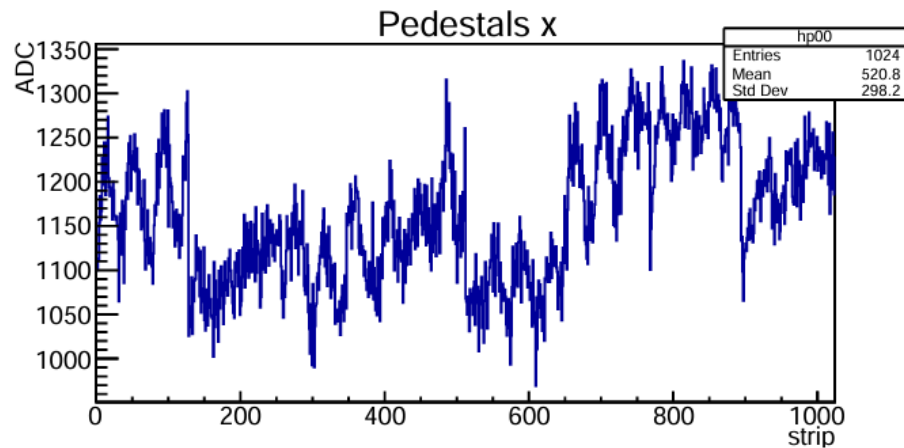
Tabella 4.5. Efficienze dei moduli 39, 22, 4 e 7 calcolate sui dati della seconda acquisizione.

	Silicio	Modulo 39	Modulo 22	Modulo 4	Modulo 7
$\epsilon_x \pm \sigma_{\epsilon_x}$	Esterno	0.917 ± 0.017	0.90 ± 0.02	0.927 ± 0.019	0.86 ± 0.02
	Interno	0.924 ± 0.011	0.917 ± 0.011	0.961 ± 0.008	0.888 ± 0.012
$\epsilon_y \pm \sigma_{\epsilon_y}$	Esterno	0.946 ± 0.014	0.88 ± 0.03	0.90 ± 0.02	0.81 ± 0.02
	Interno	0.916 ± 0.011	0.909 ± 0.011	0.896 ± 0.013	0.720 ± 0.016
$\epsilon_L \pm \sigma_{\epsilon_L}$	Esterno	0.87 ± 0.02	0.82 ± 0.03	0.83 ± 0.03	0.71 ± 0.03
	Interno	0.853 ± 0.014	0.860 ± 0.014	0.864 ± 0.014	0.653 ± 0.017

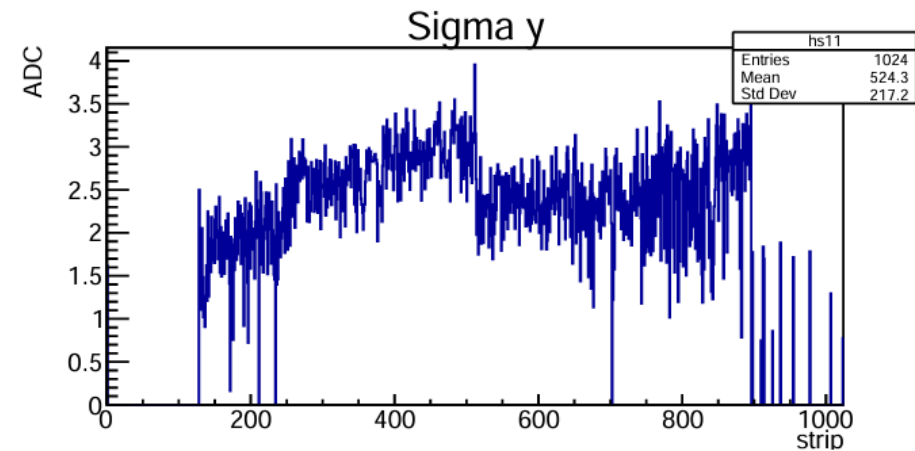
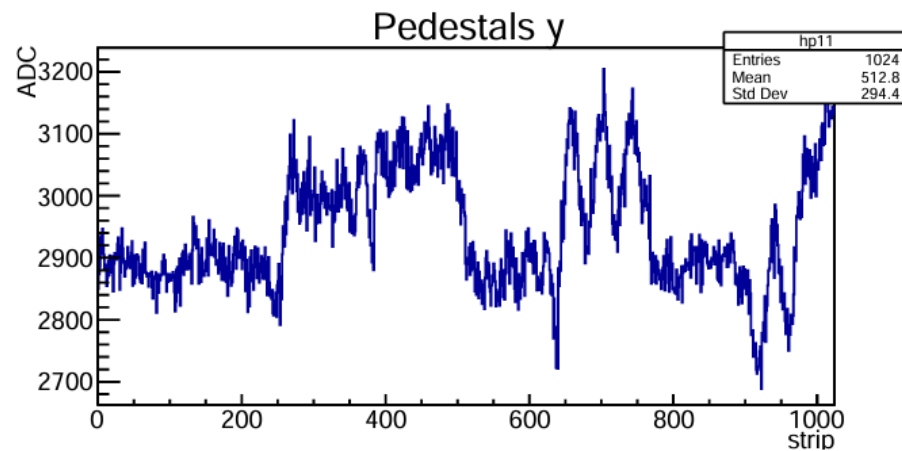
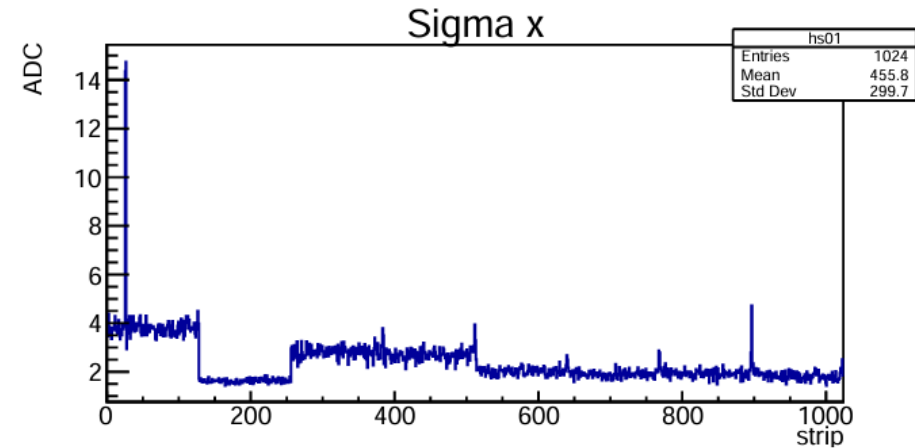
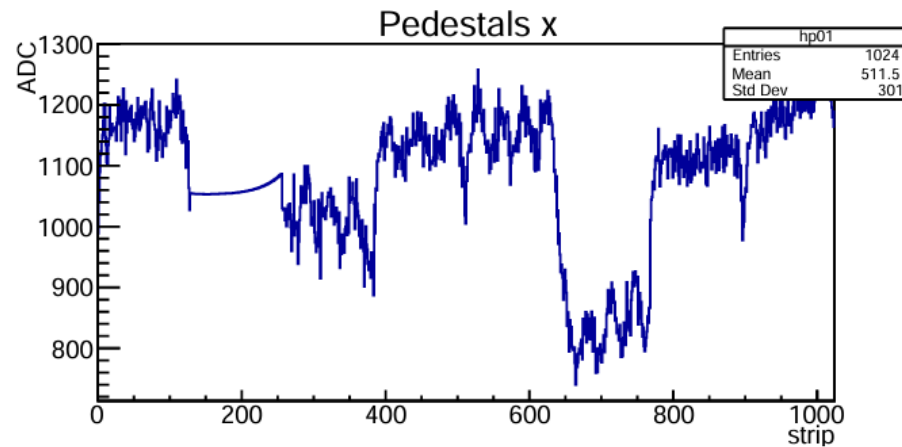
Ibrido 40



Ibrido 40 – 17Feb



Ibrido 41 – 17Feb



Ibrido 43 – 17Feb

