

University of Pisa

DEPARTMENT OF NATURAL, MATHEMATICAL AND PHYSICAL SCIENCES Master's degree in Physics

| Optimization of | of the tr | rigger sys | stem an | d data | acquisition |
|-----------------|-----------|------------|---------|--------|-------------|
| of tl | he FOO | Γ experi | ment at | CNAC |) |

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Chapter 1

Capitolo 1

Prova del capitolo 1.

$$F = ma (1.1)$$

$$F = ma (1.2)$$

$$F = ma (1.3)$$

$$F = ma (1.4)$$

1.1 Prima sezione

Qui ci scrivo qualcosa.

1.1.1 Sottosezione

Scrivo qualcosa[Pan95].

1.1.2 Sottosezione

Scrivo qualcosa[Pan95].

1.2 Prima sezione

Qui ci scrivo qualcosa.

1.2.1 Sottosezione

Scrivo qualcosa[Pan95].

0.15
(a) b

Calibration w166 ch0

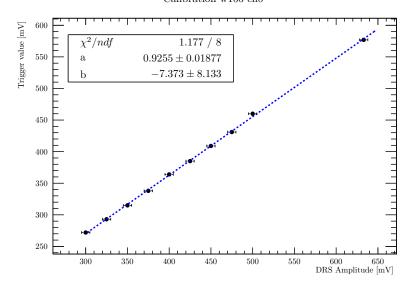


Figure 1.1: y = x

0.15

(a) b

Calibration w166 ch1

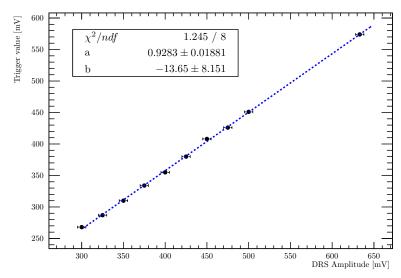


Figure 1.2: $y = 3\sin x$

1.3 Prima sezione

Qui ci scrivo qualcosa.

1.3.1 Sottosezione

Scrivo qualcosa[Pan95].

Chapter 2

Capitolo 2

[fragile]

 $Trigger\ value = a \times DRS\text{-}Amplitude + b$

| Channel | a [mV ⁻¹] | b [mV] |
|---------|-----------------------|-------------------|
| 00 | 0.93 ± 0.02 | -7.37 ± 8.13 |
| 01 | 0.93 ± 0.02 | -13.65 ± 8.15 |
| 02 | 0.93 ± 0.02 | -9.96 ± 8.13 |
| 03 | 0.920 ± 0.02 | -12.50 ± 8.10 |
| 04 | 0.92 ± 0.02 | -9.63 ± 8.08 |
| 05 | 0.93 ± 0.02 | -16.15 ± 8.14 |
| 06 | 0.92 ± 0.02 | -7.04 ± 8.10 |
| 07 | 0.92 ± 0.02 | -12.57 ± 8.11 |
| 08 | 0.90 ± 0.02 | -3.71 ± 8.99 |
| 09 | 0.91 ± 0.02 | -13.49 ± 7.85 |
| 10 | 0.90 ± 0.02 | -5.76 ± 7.78 |
| 11 | 0.90 ± 0.02 | -7.48 ± 7.88 |

The parameters are different because the *chips*, that are on the gain lines of all the channels, are different.

Bibliography

[Pan95] D. Pan. A tutorial on mpeg/audio compression. *IEEE Multimedia*, 2:60–74, Summer 1995.