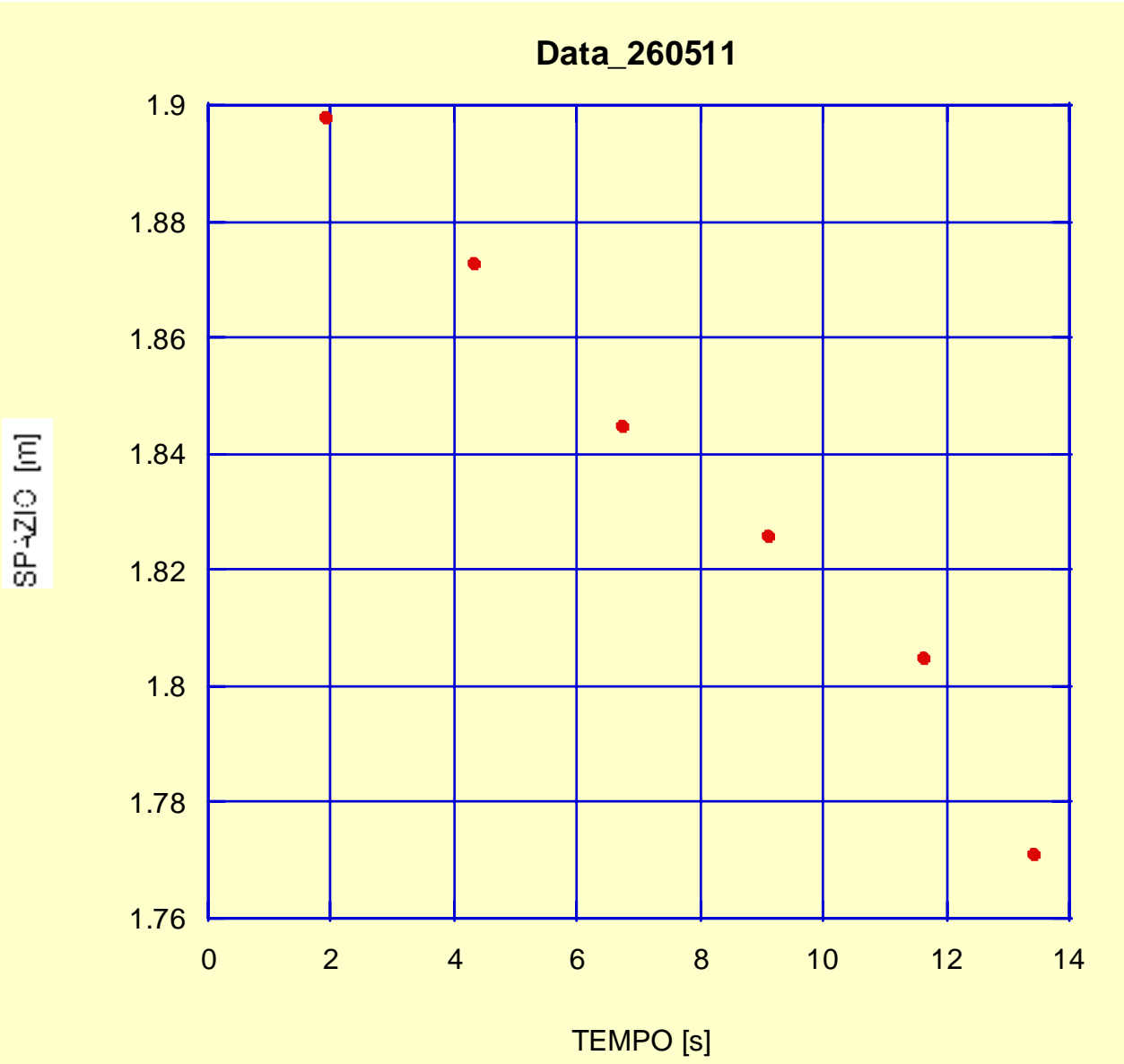


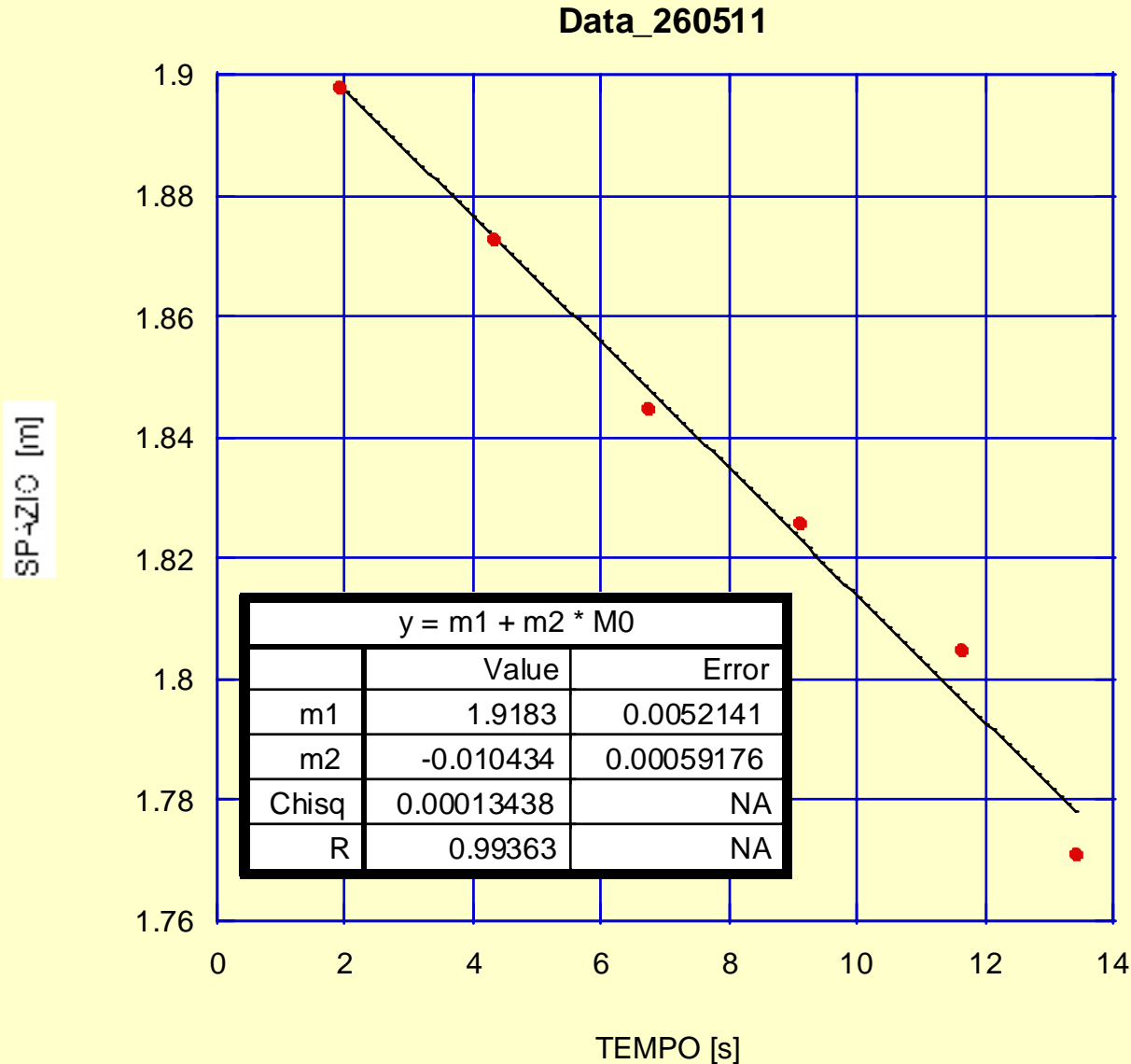
**Note su:
scelta tra varie
dipendenze funzionali
"fittate" con KALEIDAGRAPH
sui dati**

... misure di ampiezze smorzate nel moto di un carrello su piano inclinato con molla



[s]	[m]
1.9130	1.8980
4.3150	1.8730
6.7170	1.8450
9.1190	1.8260
11.622	1.8050
13.424	1.7710

$$m1 + m2 * M0; m1 = 1; m2 = 1$$



... RETTA

$$M1 = (1.9183 \pm 0.0052) \text{ m}$$

$$\rightarrow \pm 0.27 \%$$

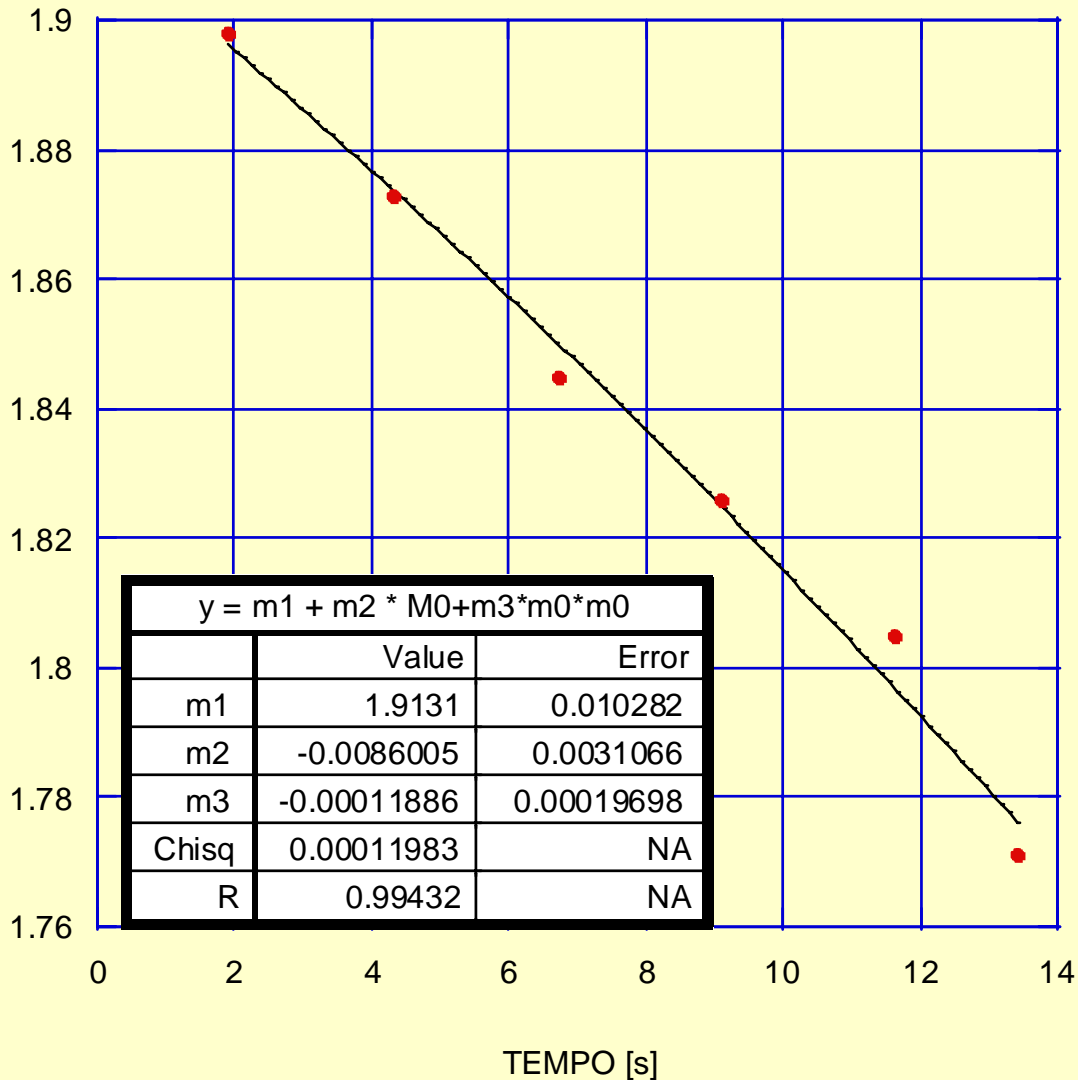
$$M2 = (0.01004 \pm 0.00059) \text{ ms}^{-1}$$

$$\rightarrow \pm 5.9 \%$$

$$\sigma_{\text{fit}} = 0.0058 \text{ m}$$

$$m1 + m2 * M0 + m3 * m0 * m0; m1 = 1; m2 = 1; m3 = 1$$

Data_260511



... PARABOLA

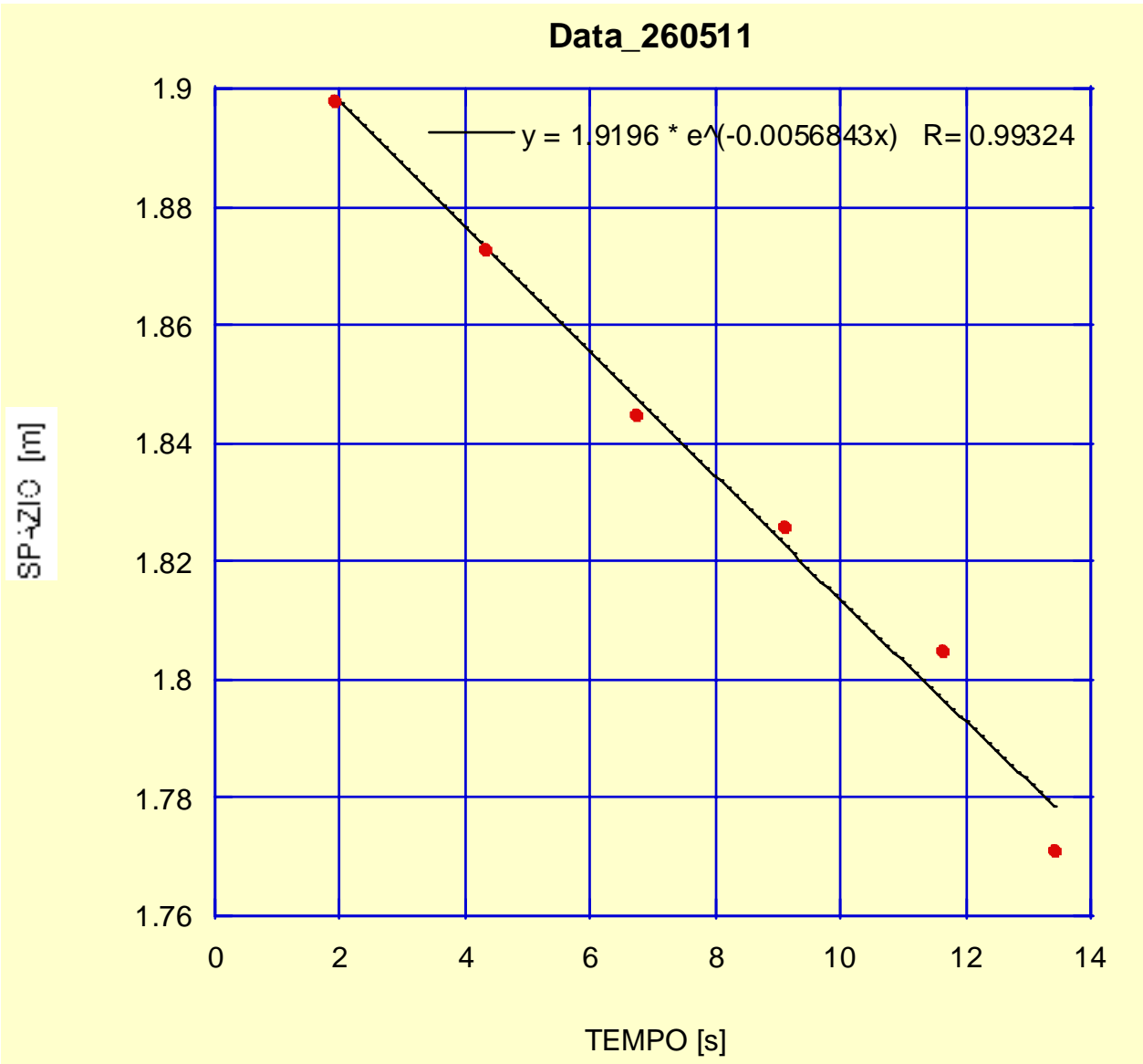
M1=(1.913 ± 0.010) m
 → ± 0.52 %

M2=(0.0086 ± 0.0031) ms⁻¹
 → ± 36 % !!!

M3=(0.00012 ± 0.00020) m
 → ± 1.7 % !!!

$\sigma_{fit} = 0.0063$ m

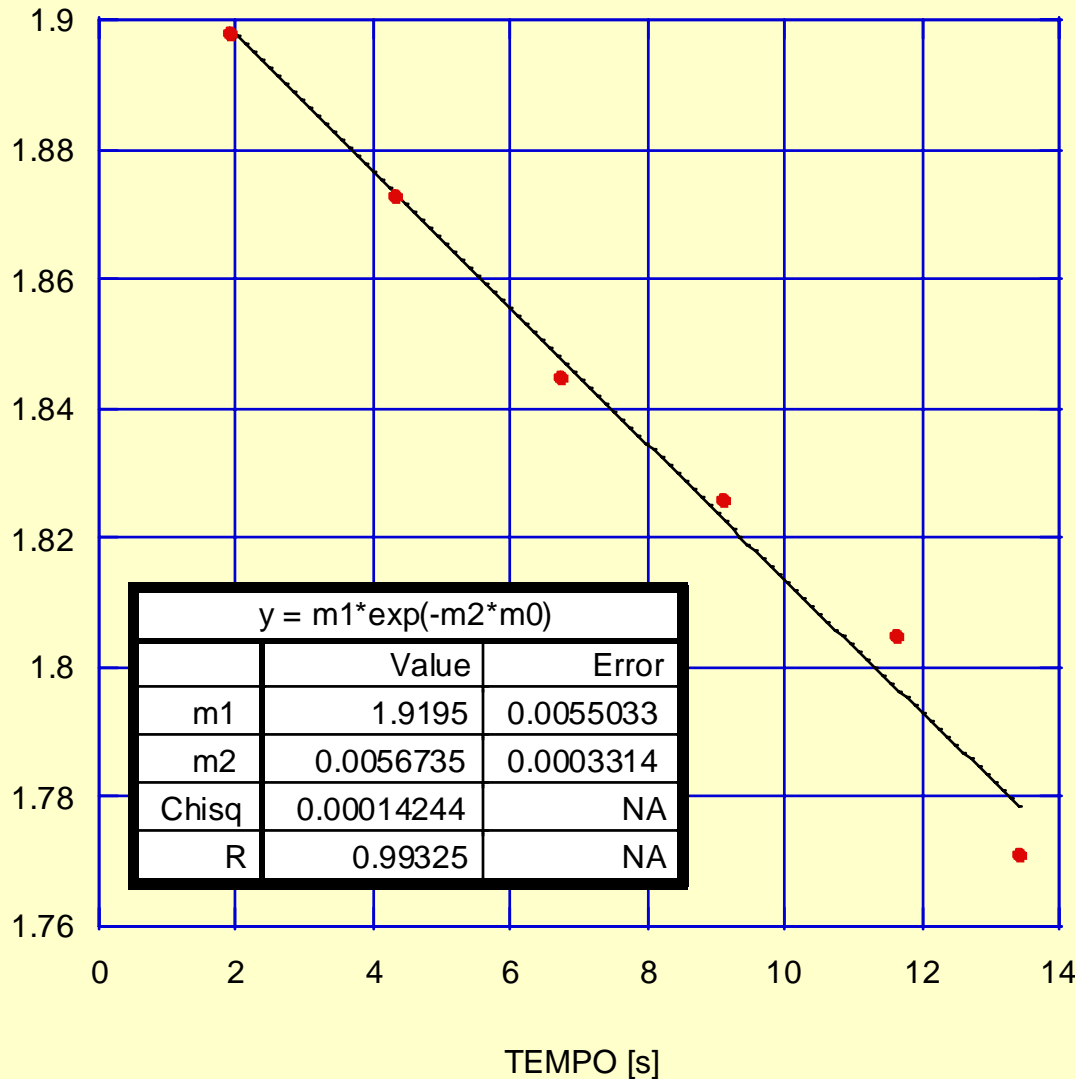
... tentativo per i migliori parametri....ma senza i relativi errori!



$$m1 * \exp(-m2 * m0); m1 = 1.9; m2 = 0.006$$

SPAZIO [m]

Data_260511



... ESPONENZIALE

M1=(1.9195 ± 0.0055) m

→ ± 0.29 %

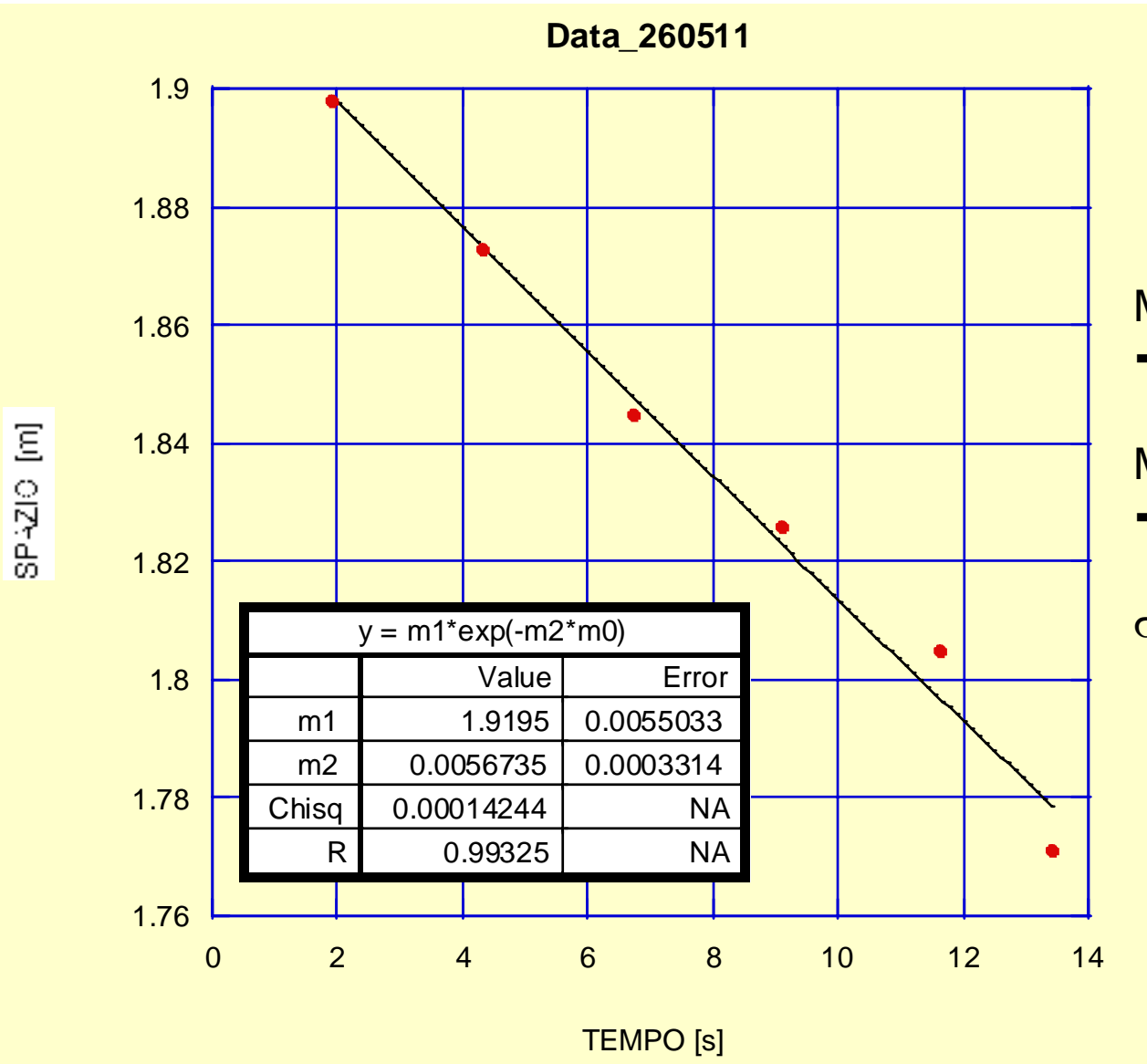
M2=(0.00567 ± 0.00033) ms⁻¹

→ ± 5.8 %

σ_{fit} = 0.0060 m

... ESPONENZIALE

$$m1 * \exp(-m2 * m0); m1 = 1; m2 = 1$$



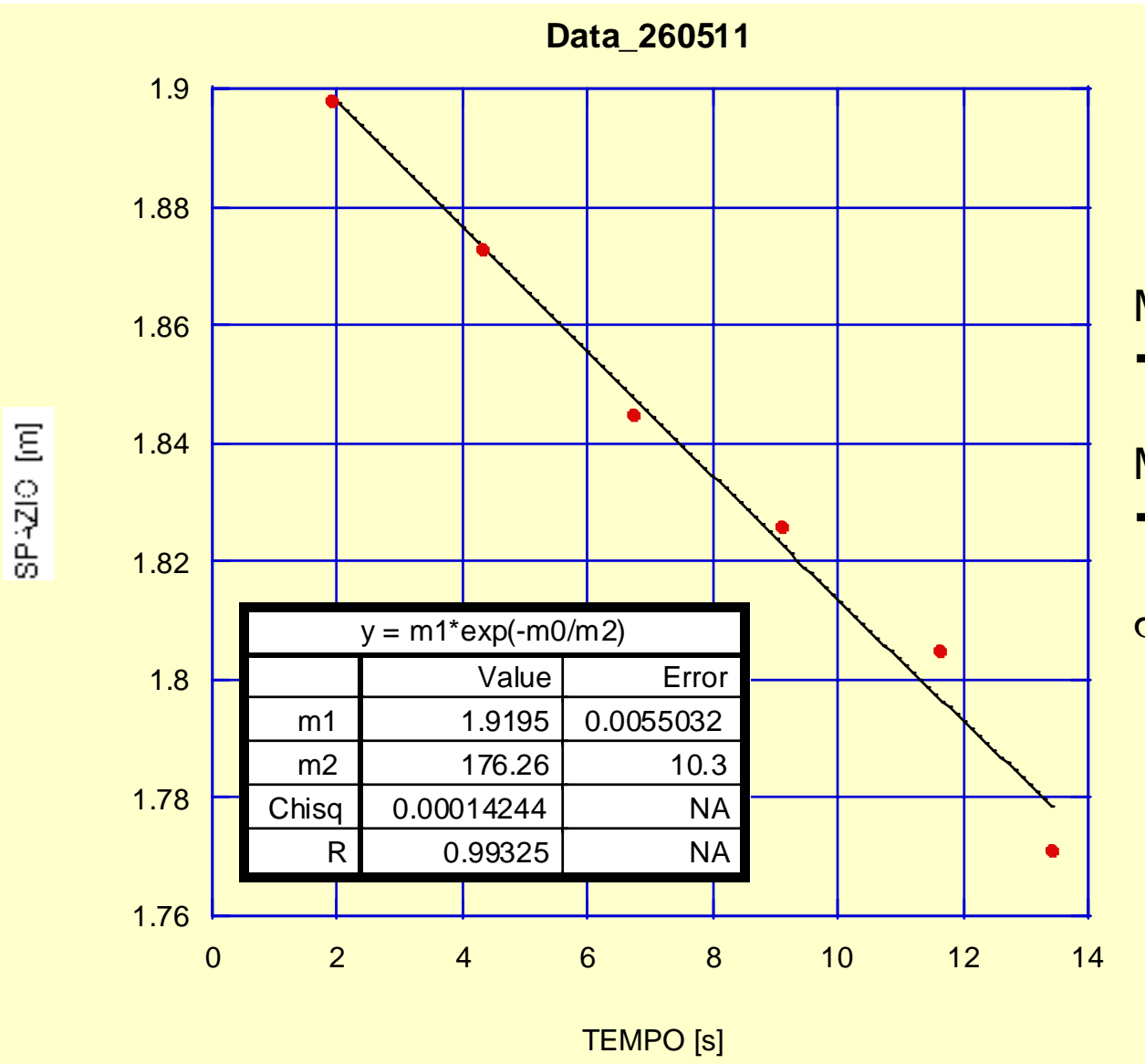
M1=(1.9195 ± 0.0055) m
→ ± 0.29 %

M2=(0.00567 ± 0.00033) ms⁻¹
→ ± 5.8 %

$\sigma_{fit} = 0.0060$ m

... ESPONENZIALE

$$m1 * \exp(-m0/m2); m1=1; m2=1$$



M1=(1.9195 ± 0.0055) m
→ ± 0.29 %

M2=(176 ± 10) ms⁻¹
→ ± 5.7 %

$\sigma_{fit} = 0.0060$ m

$$\sigma_{fit}^{RETTA} < \sigma_{fit}^{EXP} < \sigma_{fit}^{PARABOLA}$$