

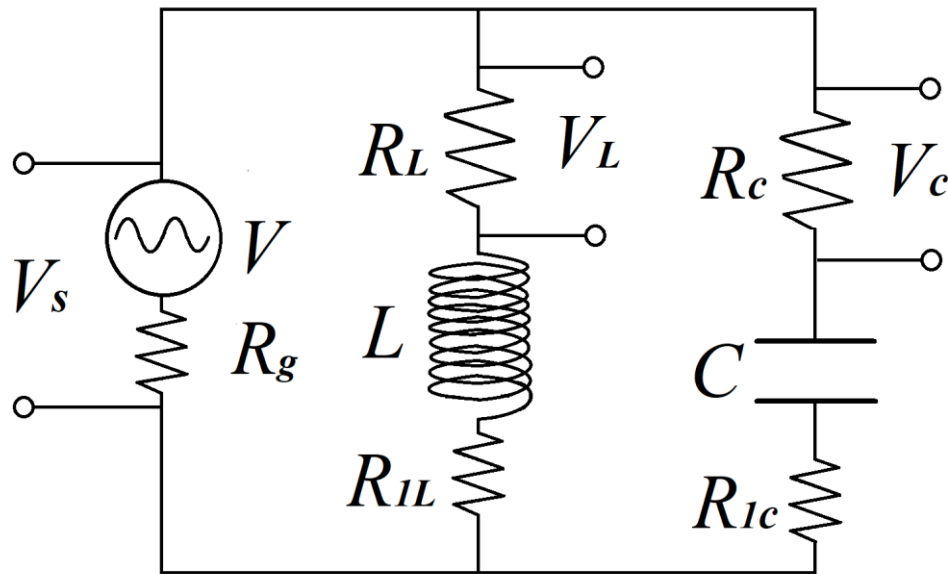
ANALISI DI UN FILTRO CROSSOVER

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A.A. 2021/2022



APPARATO SPERIMENTALE



Schema del circuito realizzato sulla scheda
NI ELVIS II

Function generator

- $R_G \approx 50 \Omega$
- V : tensione sinusoidale con ampiezza 5V

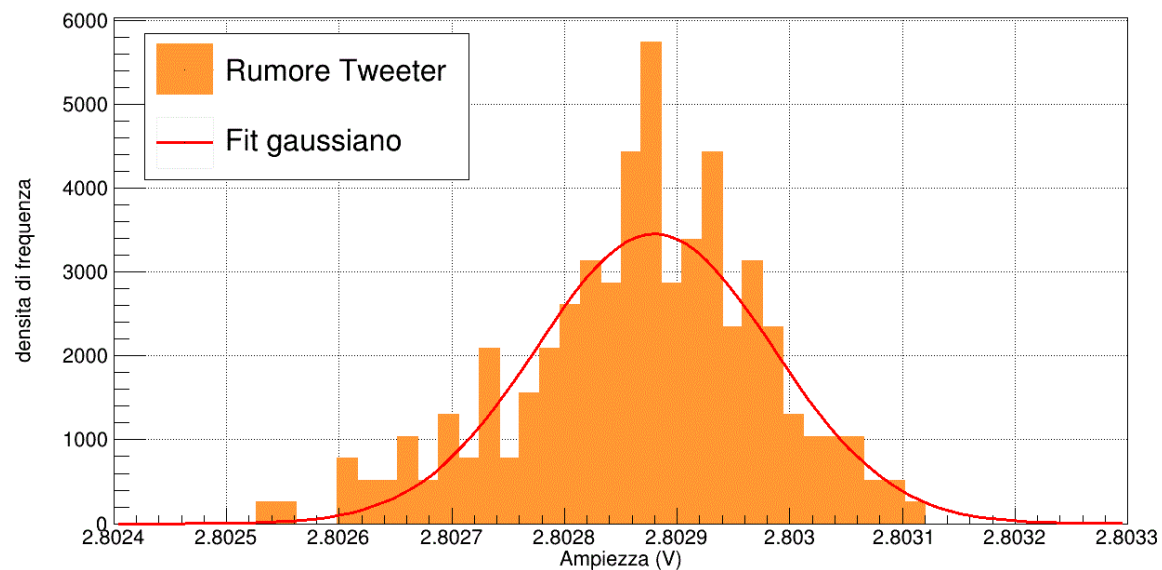
Ramo Woofer

- $L = (48.9 \pm 0.5) \text{ mH}$
- $R_{1L} = (127.14 \pm 0.16) \Omega$
- $R_L = (997.9 \pm 0.5) \Omega$

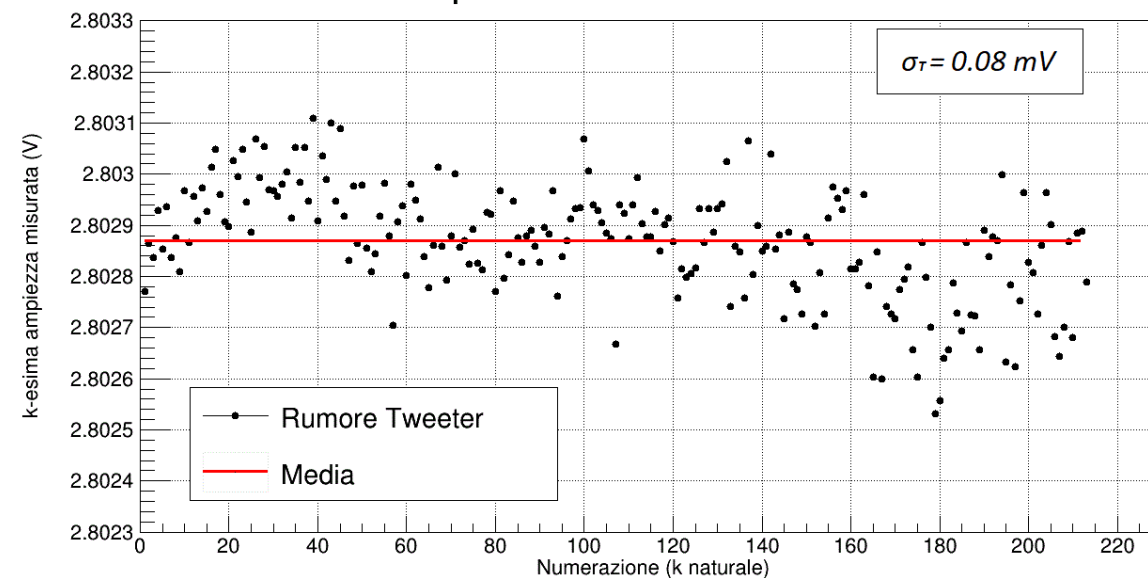
Ramo tweeter

- $C = (32.0 \pm 0.3) \text{ nF}$
- $R_{1C} = (999.9 \pm 0.5) \Omega$
- $R_C = (150.10 \pm 0.17) \Omega$

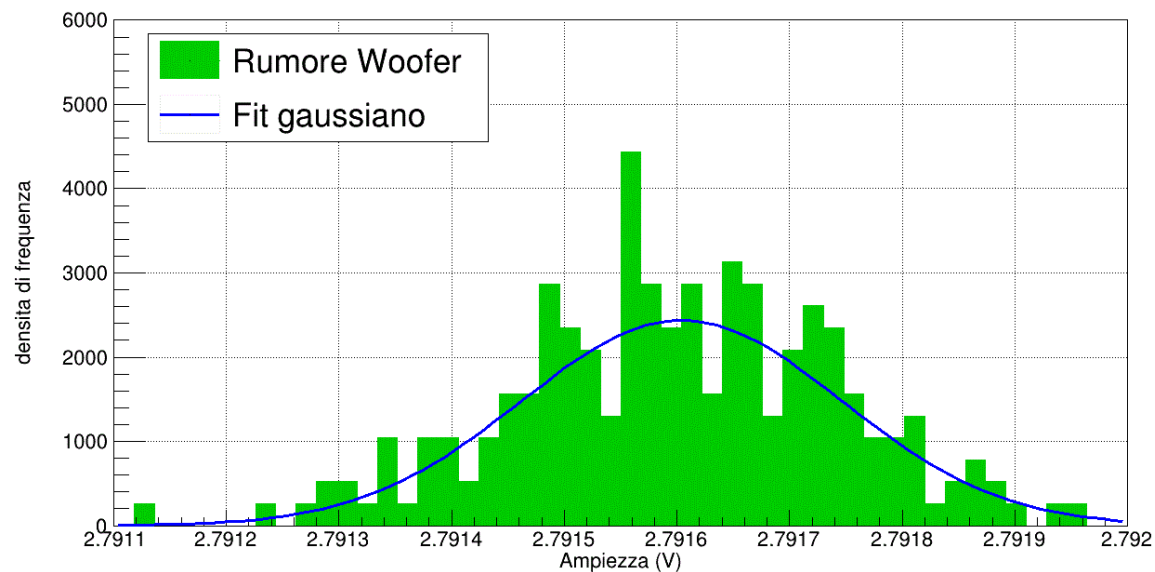
Rumore Tweeter - Densità di Frequenza



Campioni del rumore sul tweeter



Rumore Woofer - Densità di Frequenza



Campioni del rumore sul woofer

