

GRUPO 2 *Fisica* 2 - TP N° 7

$F_0 - 300 \text{ Hz} = 800 \text{ Hz}$

- $I_{ef} = \frac{1,308 \text{ V}}{986 \Omega} = 0,0013 \text{ A}$
- $Z = \frac{1,347 \text{ V}}{0,0013 \text{ A}} = 1015,3991 \Omega$
- $X_C = \frac{0,532 \text{ V}}{0,0013 \text{ A}} = 401,0336 \Omega$
- $C = \frac{1}{6.917,8 \frac{1}{s} \cdot 401,0336 \Omega} = 0,4961 \times 10^{-6}$
- $Z_L = \frac{0,279 \text{ V}}{0,0013 \text{ A}} = 210,3165 \Omega$
- $X_L = \sqrt{(210,3165 \Omega)^2 - (11,5 \Omega)^2} = 210,0019 \Omega$
- $L = \frac{210,0019 \Omega}{6.917,8 \frac{1}{s}} = 0,0418 \text{ H}$
- $\varphi = \arctan \frac{210,0019 \Omega - 401,0336 \Omega}{11,5 \Omega + 986 \Omega} = -10^\circ 50' 29''$