

Lab 13: The DIY Inductor

Your name if you don't apologize!

May 12, 2021

Table 1: Sizes	
My penis length l	1.2 cm
Diameter of my penis d	0.25 cm
Number of windings N	70
Length of the inductor a	1.1 cm

Table 2: First Approximation for R_{int}						
$f(Hz)$	s/DIV	$V_{RL}(V)$	V/DIV for V_{RL}	$V_L(V)$	V/DIV for V_L	$R_{int}(\Omega)$
1000	0.5ms	298V	500V	40V	50V	136

Table 2: First Approximation for L									
$f(Hz)$	s/DIV	$V_{RL}(V)$	V/DIV for V_{RL}	$V_L(V)$	V/DIV for V_L	$I_R(A)$	$Z_{L,eff}(\Omega)$	$X_L(\Omega)$	L (H)
65000	2000us	302V	500V	60V	5000V	30 ¹ 0000	199 ¹ 0000	402 ⁻¹⁰⁰⁰⁰	98400000

Table 3: The Impedance of an Inductor					
$f(Hz)$	s/DIV	$V_{RL}(V)$	V/DIV for V_{RL}	$V_L(V)$	V/DIV for V_L
1000	2000us	2.98V	0.5V	0000V	0.5V
22000	2000000us	-300002V	0001V	0.04V	0.5V
32000	4000000us	30000 ¹ 0000V	0010V	0.04V	0.5V
39000	6000000us	30 ⁻⁹⁹⁹⁹⁹ V	0011V	0.04V	0.5V
45000	5000000us	300V	0100V	0.06V	0.5V
50000	7000000us	298 ¹ 2345679V	0101V	0.06V	0.5V
55000	9000000us	123456789V	0110V	0.06V	0.5V
60000	6000000us	0123456789V	0111V	0.06V	0.5V
65000	4000000us	1111V	0.5V	1000V	0.5V

YOUR PHOTO NOT BLURRED



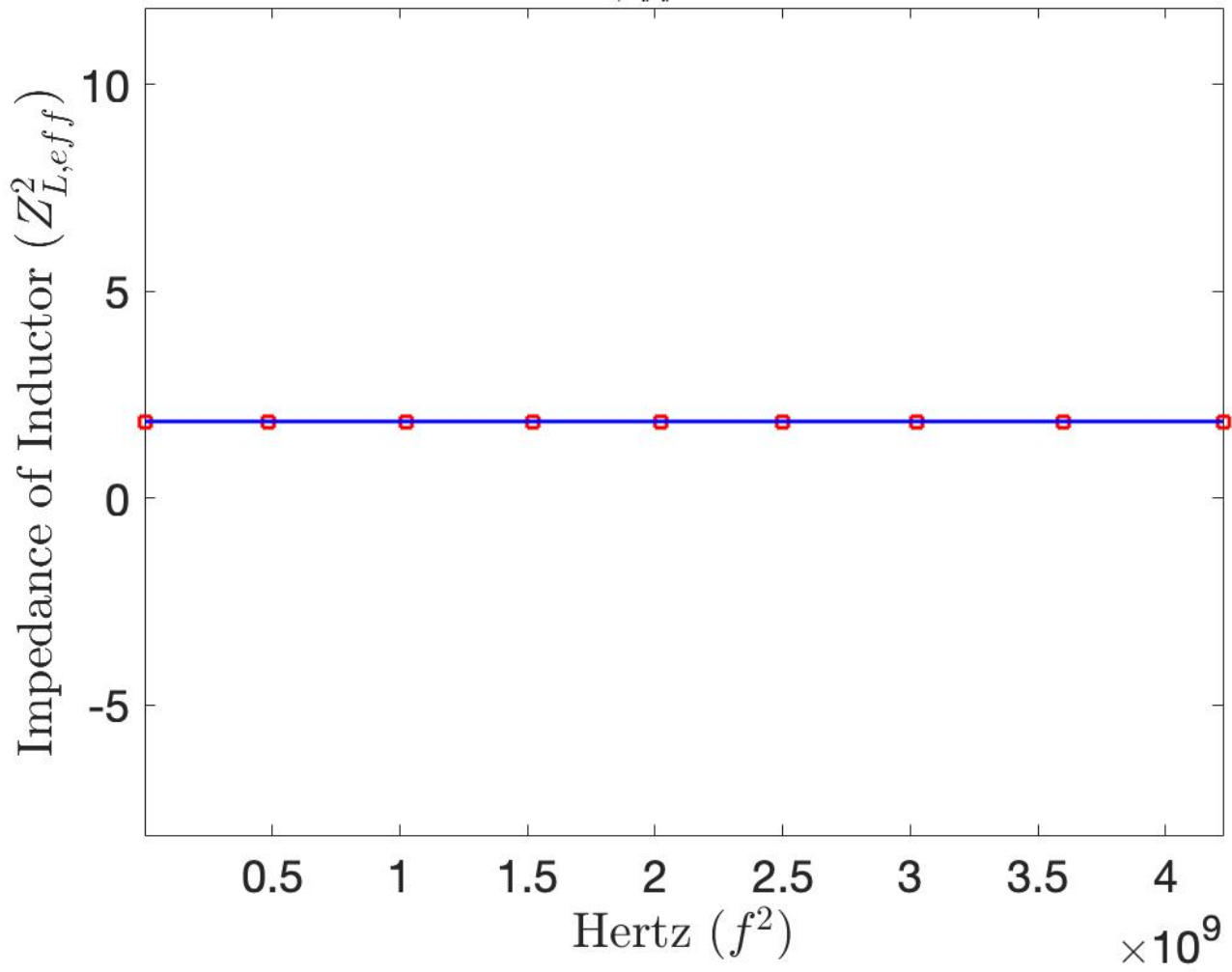
if you don't apologize!



if you don't apologize!

GRAPH

$Z_{L,eff}^2$ vs f^2



- I am a dumb ass! I should not be allowed to reproduce anymore cause I am so dumb that I am harmful to society.