IF POSSIBLE PUT, NAMES IN TWO COLUMNS

Change the abstract to the new one on the doc.

*Change ohms law to V=iZ in theory*

*Arctan in brackets equation 3*

*Ie. arctan(x/r)*

*The phi should be lowercase in equation 3 ie φ*

*Spaces btwn units and desc., eg. change from inductor(omega) to inductor (omega)*

*change rads-1 to rad s-1*

*Lowercase f\_r in theory*

Method

Change entire fn gen impedance paragraph “The internal impedance ... comparing the potential ratios” with: “The internal impedance of the function generator was determined by manipulating the external resistance and comparing potential ratios”

*Change the uncertainties in the method*

*98.2±.8 uF to 98.2±.1 uF*

*47 Hz to 47.0±.5 Hz*

*9.8±.5 mH to 9.8±.2 mH*

*10±1 to 10.2±0.1 nF*

Before LC,

Change all of “An LC circuit was in a configuration such that a ... damped by the resistor” to

“An LC circuit was constructed with the same values and natural freq was measured with an oscope.”

WHY IS THERE SPACE BTWN PARAGRAPHS IN METHOD

*Change 4:1 turn ratio to 4:1 step-up ratio*

Analysis:

* *Change caption in the RC graph (double period etc.)*
* *Add random uncertainty for the reactances, make them one decimal place*
* *33.6 ohms -> 33.6±.2 ohms*
* *34.5 ohms -> 34.5±.2 ohms*
* *37.02 degrees -> 37.02±.02 degrees (Change this in abstract too!)*
* *“****Fig X. Plot for a low and high pass filter.*** *The Low Pass is represented by the potential across the capacitor and High Pass is the potential across the resistor”* ***NEW CAPTION***
* *Get rid of “the theory of phasors...resistance and reactance” before equation 7*
* *Change “The Lissajous figure was ... two sinusoidal waveforms.” to “The Lissajous figure was generated by plotting V\_T vs V\_R, which was modelled by a parametric equation.”*
* Change “is approximately” to wavy symbol pls
* *Add this to para before HP and LP. “This effect has practical applications and can be used to create high-pass and low-pass filters.*
* *Caption of the graph figure 3 “title. A low-pass filter would take potential across capacitor and a high-pass would take potential across the resistor. The intersection point, which was graphically determined to be (35.1±.4)Hz is one bound for both filters.*
* *Get rid of paragraph below the figure 3 “in the above graph ... 35.1 Hz”*

Below CLR Graph

* *Change “The resonance frequency was obtained ... 15893 Hz” (aka right before “which”) to “A GRG nonlinear regression was performed and a peak frequency was determined to occur at 15893±1Hz”*
* *Change “[10] defines an underdamped response ” to “[9] defines an underdamped...“ right after equation 9*
* *Change “15906 Hz” to “(15906±5)Hz” above figure 5*
* *Remove “only a fraction of a % frmo.. RLC circuit”*
* *Transformer graph fewer data points. (This is on the transformer sheet)*
* *^ change the graph to the new data points on the transformer sheet*

**Analysis (just copy paste):**

*Change “b-field” to “B-field” in sources of error*

*Change “comparing the square ... values” right before figure 6 to “The experimental square solenoid data aligned within a margin of error of the simulation.”*

*Change “the more interesting ... used” just after figure 6 to “Parallel Helmholtz coils proved to be more interesting.”*

*Change “this led to the belief ... claim” before figure 8 to “This reinforced the idea that B-fields add linearly, and experiment 5 was designed to verify this claim.”*

Change “unfortunately for any charged ... supplied” after figure 10 to “Unfortunately, the currents required were too large to be experimentally verified.”