

Grading Rubric for Papers in Physics 480W

The Matrix

title of reviewed paper: Investigations in pulsed nuclear magnetic resonance

Table 1: grading rubric: each evaluative category (row) is scored on a 3-2-1 basis. Each category is weighted (w , shown next to the category descriptor below) either 2, 1, or 1/2. The total number of points possible per row is then $3 \times w$, (i.e. 6pts are possible for row 1). There are 9 total rows, and 30 total points possible. The grades recorded will be, however, a score out of 100 arrived at by dividing the student's score by the total possible, etc., etc. Note that physics content accounts for 18/30 of the total, or 60% of the total grade. Grammar & composition, and formatting account for 40%.

	Proficient (3pts.)	Intermediate (2pts.)	Developing (1pt.)	total-whiff (0pts.)	Score
Physics Content, 18 pts. possible					
Correctness (w=3)	⊗				9
error analysis (w=2)			⊗		2
completeness (w=1)		⊗			2
Grammar & Composition, 9 pts. possible					
level of prose composition (w=1)	⊗				3
level of sentence syntax (w=1)		⊗			2
diction (w=1/2)	⊗				1.5
“Math as Prose” (w=1/2)			⊗		0.5
Formatting, 3 pts. possible					
L ^A T _E X formatting (w=1/2)	⊗				1.5
AIP formatting (w=1/2)	⊗				1.5

Comments:

The theory section of the essay was complete and appeared accurate. While brief, the theory section hit on all the important equations needed later for the calculations. The results section did not include error analysis for the decay times measured. I would recommend including error in the results and also analyzing where it came from. Author did include some error analysis in the abstract. Overall the essay was complete and included all results asked of in the experiment. I would recommend mentioning gyromagnetic ratio results in the intro because it was part of the results and also touch on which equation best explained the relationship between the quantities in the introduction.

Overall the grammar and composition of the essay is well done. The level of prose is indicative of a well thought out essay delivered at an appropriate level. There are a few typos through out the essay that need to be addressed. For math as prose you need to include proper punctuation at the ends of equations. Additionally I would recommend referring back to the equations in the theory to tie them to the results section to help the reader recall where they are coming from.

The latex formatting of the essay is well done. Im not entirely sure why figure 8 is placed at the end of the paper while the rest are in the text. Also the references are missing. Score: $23/30 = 76.6$ percent