Physics 293	Fall 2007
Name:	
Lab: <u>Nuclear States and Nuclear Models</u>	
Grader:	

Fall 2007

Grading Rubric	Subscore	Maximum	Score	Total
Title Page				1
Results				57
Spreadsheet		5		
Calculate the background corrected net countrate		5		
Half-Life of Ba & straight line calculation		5		
Graph (w/ best fit)		5		
Energy Differences		5		
Identify each of the Pb X-rays		5		
FWHM of the annihilation radiation peak		3		
Comparison		5		
Energies of first excited state and vibrational triplet		5		
Are the energies of the three vibrational triplet?		5		
Energies of Sm and Gd from Eu decay		5		
Ratios of the energies		2		
Identity of Sm and Gd		2		
Discussion				17
Compare your measured and theoretical calculations		5		
Is the theoretical result close enough?		5		
Identify which state is 0+ and 2+		2		
Explanation of identification		5		
Units (-1 every occurrence)	_			
Measurements w/o uncertainty (-1/2 every occurrence)	_			
Total				75