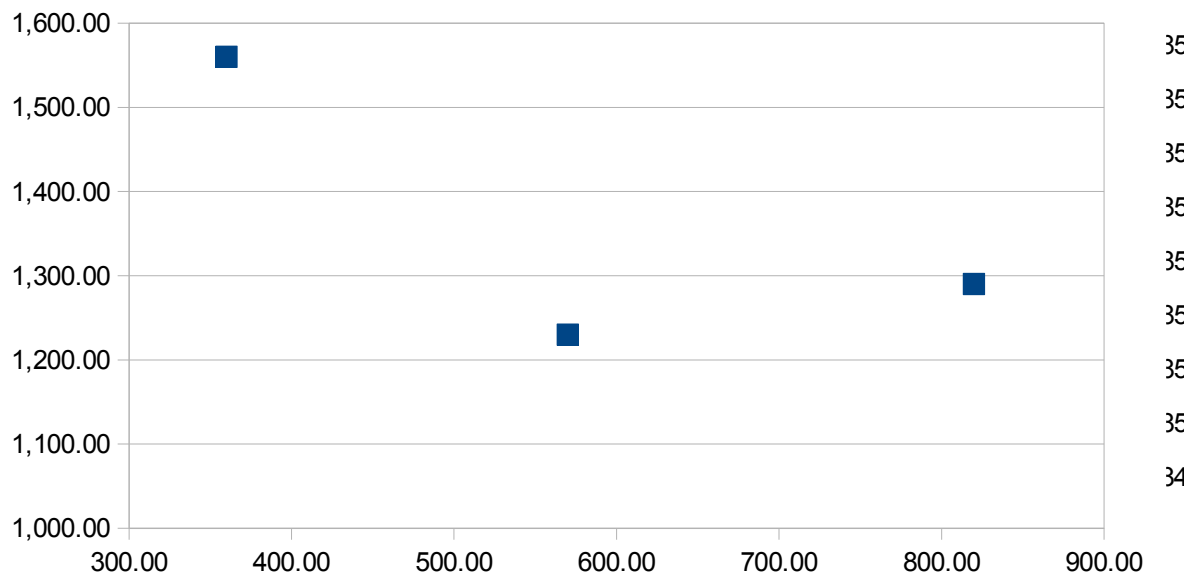


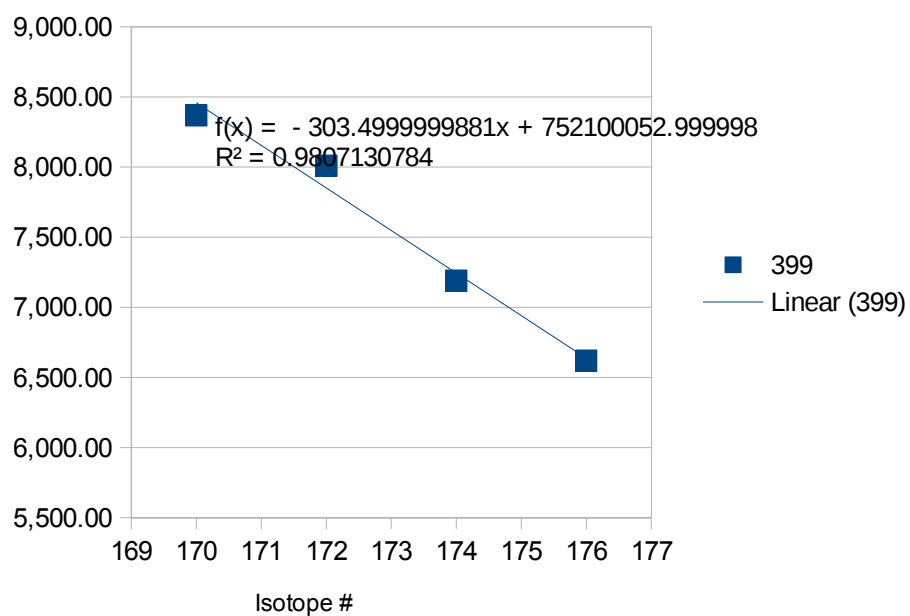
# Sheet1

Isotope	399	369	411	435	467
			'2S1/2 2D5/2	'2S1/2 2D3/2	'2S
MHz					
170	<b>752,048,370.00</b>	<b>811,856,040.00</b>	729,498,690.00		
171			<b>729,487,779.57</b>	<b>6</b>	752,04
172	<b>752,048,010.00</b>	<b>811,854,480.00</b>	<b>729,476,869.13</b>	<b>6</b>	
173			729,465,958.69	<b>688,358,979.31</b>	752,04
174	<b>752,047,190.00</b>	<b>811,853,190.00</b>	<b>729,455,048.26</b>		
175			729,444,137.82		752,04
176	<b>752,046,620.00</b>	<b>811,851,960.00</b>	729,433,227.39		
177			729,422,316.95		752,04
178			729,411,406.51		
Average Isotope Shift (MHz / amu)					752,04
	-303.50	-676.50	-10,910.44		752,04
<b>BOLD</b> means real data					752,04
NONBOLD means linear extrapolation					752,04
King Plot	360.00	1,560.00	21,820.87		752,04
	820.00	1,290.00	21,820.87		
	570.00	1,230.00	21,820.87		

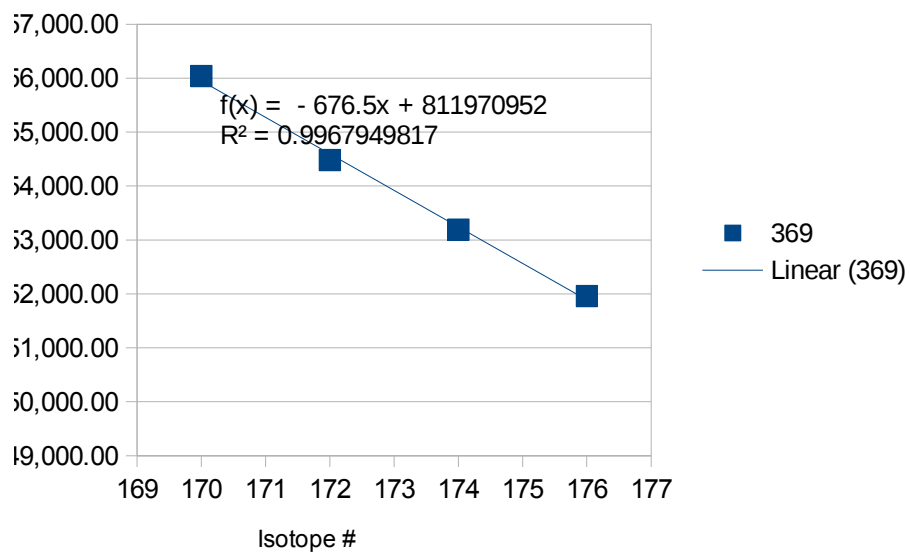
King Plot



transition freq vs isotope



transition freq vs isotope



Sheet2

King Plots	<b>Bold:data</b>		unbold:fitted	
	369	411	635	
	2P3/2 (MHz)	2D5/2	D[5/2] (MHz)	absolute freq (MHz)
error	+/- 30 MHz	+/- ~2 MHz	+/-20 MHz	(+/- 2MHz)
168	<b>3,007.800</b>		<b>6,040.000</b>	
170	<b>1,457.900</b>		<b>2,930.000</b>	729,486,462.466
171	<b>922.500</b>	<b>1,317.100</b>	1,835.458	729,487,779.566
172	<b>.000</b>	<b>.000</b>	.000	729,486,462.466
174	<b>-1,152.300</b>	<b>-1,645.197</b>	<b>-2,260.000</b>	<b>729,484,817.269</b>
176	<b>-2,254.800</b>		<b>-4,410.000</b>	

<https://journals.aps.org/prapdf/10.1103/PhysRevA.60.2867>

slope relative to 2P3/2  
1.427750678 1.989656759

172 2D5/2 transition frequency: (+/- 150 kHz)

729 487 779 566

<https://journals.aps.org/prapdf/10.1103/PhysRevA.60.2867>

03.

