Colour	m	n_i	Left Deg	Left Min	Right Deg	Right Min	θ	λ (nm)	$1/\lambda$ (m^{-1})	$(1/4 - 1/n_i^2)$	R (m^{-1})
Violet	1	5	193	42	223	50	**15.07**	433.24	2308200	0.2100	$(1.0991\pm0.0012)\times10^7$
Turquoise	1	4	191	45	225	30	**16.88**	483.81	2066937	0.1875	$(1.1024\pm0.0011)\times10^7$
Red	1	3	185	30	231	47	**23.14**	655.01	1526695	0.1389	$(1.0992\pm0.0007)\times10^7$
Violet	2	5	177	26	239	56	**31.25**	432.31	2313149	0.2100	$(1.1015\pm0.0005)\times10^7$
Turquoise	2	4	173	5	244	45	**35.83**	487.86	2049777	0.1875	$(1.0932\pm0.0004)\times10^7$
Red	2	3	156	44	260	26	**51.85**	655.33	1525948	0.1389	$(1.0987\pm0.0003)\times10^7$
Violet	3	5	157	19	259	26	**51.06**	432.10	2314260	0.2100	$(1.1020\pm0.0003)\times10^7$

Average R = $(1.0995\pm0.0003)\times10^7$
Error from Literature Value = 0.19 %

R from graph = $(1.0997\pm0.0012)\times10^7$
Error from Literature Value = 0.21 %

All code can be found on my GitHub profile.

GitHub Username: TheReconPilot
Repository: IISER-Labs
Link: https://github.com/TheReconPilot/IISER-Labs/tree/master/PHY%20222/Rydberg%20Constant

Error analysis using Python's *uncertainties* package
Graph plotted using *matplotlib* and *scipy*