

No overlaps

Excited state	U2	U4	U6	Integrated cross section (cm ² nm)	Mean peak wavelength (nm)	Refractive index	F _{exp}	S _{exp} (cm ²)	Scalc (cm ²)	Barycenter (cm ⁻¹)
¹ I _{15/2}										109
<input checked="" type="checkbox"/> ¹ I _{13/2}	0.0194984	0.1173353	1.4316383	7e-19	1520	1.9986	0.000003429	3.846e-20	3.491e-20	6570
<input checked="" type="checkbox"/> ¹ I _{11/2}	0.0281916	0.0003049	0.3952644	9.41e-20	974	2.0099	0.000001123	7.993e-21	1.090e-20	10202
<input checked="" type="checkbox"/> ¹ I _{9/2}	0.1181329	0	0.0099097	3.41e-20	801	2.0194	6.015e-7	3.494e-21	9.269e-21	12412
<input checked="" type="checkbox"/> ⁴ F _{9/2}	0	0.5353863	0.4617945	1.48e-19	655	2.0349	0.000003904	1.831e-20	1.829e-20	15237
<input checked="" type="checkbox"/> ⁴ S _{3/2}	0	0	0.2211363	1.95e-20	544	2.0579	7.458e-7	2.849e-21	4.888e-21	18359
<input checked="" type="checkbox"/> ² H _{11/2}	0.712554	0.4123647	0.0924666	4.21e-19	521	2.0652	0.00001755	6.384e-20	6.286e-20	19110
<input checked="" type="checkbox"/> ⁴ F _{7/2}	0	0.1468776	0.6265381	6.53e-20	489	2.0775	0.000003091	1.044e-20	1.607e-20	20448

Theoretical overlaps between ⁴S_{3/2} and ²H_{11/2}

Excited state	U2	U4	U6	Integrated cross section (cm ² nm)	Mean peak wavelength (nm)	Refractive index	F _{exp}	S _{exp} (cm ²)	Scalc (cm ²)	Barycenter (cm ⁻¹)
¹ I _{15/2}										109
<input checked="" type="checkbox"/> ¹ I _{13/2}	0.0194984	0.1173353	1.4316383	7e-19	1520	1.9986	0.000003429	3.846e-20	3.533e-20	6570
<input checked="" type="checkbox"/> ¹ I _{11/2}	0.0281916	0.0003049	0.3952644	9.41e-20	974	2.0099	0.000001123	7.993e-21	1.098e-20	10202
<input checked="" type="checkbox"/> ¹ I _{9/2}	0.1181329	0	0.0099097	3.41e-20	801	2.0194	6.015e-7	3.494e-21	8.948e-21	12412
<input checked="" type="checkbox"/> ⁴ F _{9/2}	0	0.5353863	0.4617945	1.48e-19	655	2.0349	0.000003904	1.831e-20	1.813e-20	15237
<input checked="" type="checkbox"/> ⁴ S _{3/2}	0.712554	0.4123647	0.3136029	4.4051e-19	523	2.0645	0.00001823	6.658e-20	6.564e-20	18359
<input type="checkbox"/> ² H _{11/2}	0.712554	0.4123647	0.0924666	4.21e-19	521	2.0652	0.00001755	6.384e-20	6.067e-20	19110
<input checked="" type="checkbox"/> ⁴ F _{7/2}	0	0.1468776	0.6265381	6.53e-20	489	2.0775	0.000003091	1.044e-20	1.621e-20	20448