

Table 1: List of Equipment used in Faraday rotation experiment.

Component	Supplier	
Light source	laser 633 nm, 2 mW	Thorlabs (HRR-020)
	laser 405 nm, 40 mW	B&W TEK (405-40E)
Linear Polarizer	extinction ratio=1000:1	Thorlabs (LPVIS050)
Magnetic field production	Signal generator, $10V_{pp}$	GW-Instek (SFG-1013)
	Audio amplifier, 150 W	CERWIN VEGA
	Power supply, 10 A, 12 V	Panasonic electronics
Detection element	Photodiode	Newport (818-SL)
Measuring instruments	Lock in amplifier	Stanford Research System (SR-510)
	Oscilloscope	GW-Instek
	Gaussmeter	LakeShore (410)
	Clampmeter	Kyoritsu (KEW SNAP 2017)
	LCR meter	QuadTech, Inc.
Accessories	Optical breadboard $90 \times 60 \times 6cm$	Thorlabs (PBI51506)
	Optical rail, 60 cm long	Thorlabs (RLA600/M)
	Rail carrier 2.5 cm	Thorlabs (RC1)
	SS Post, 5 cm long	Homemade
	Post holder, 7.6 cm long	Thorlabs (PH3/M)
	Rotation mount, 2 degree resolution	Thorlabs (RSPO5/M)
	Laser post, 20 cm long	Thorlabs (P200/M)
	V shaped laser housing	Thorlabs (C1502/M)
	Glass cell, 6 cm long	Homemade
	Crescent shaped cell holder	Homemade
	Teflon crystal holder	Homemade
	Laser safety glasses OD=4, OD=7	Thorlabs (LG4, LG10)
	M6 and M4 screws	Thorlabs
TGG crystal d=1 cm	Castech	