

Materials List for:

Automation of Mode Locking in a Nonlinear Polarization Rotation Fiber Laser through Output Polarization Measurements

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Materials

Name	Company	Catalog Number	Comments
Bare-Fiber adaptor	Bullet	NGB-14	
Drop-in polarization controller	General Photonics Corp.	Polarite PLC-006	Manual polarization controller.
DSP In-line polarimeter	General Photonics Corp.	POD-101D PolaDetect	Polarimeter with USB/serial computer connectivity.
Fiber Cleaver	Fitel	S323	
FiberPort	Thorlabs Inc.	PAF-X-2-C	
Fixed Fiber-to-Fiber Coupler Bench	Thorlabs Inc.	FBC-1550-APC	Any optical bench could be used. A 3-way bench would even be better.
Fusion Splicer	Fujikura	FSM-40PM	
High resolution all fiber polarization controller	Giga Concept Inc.	GIG-2201-1300	All-fiber motorized polarization controller with USB computer connectivity.
InGaAs PIN PD module	Optoway	PD-1310	Pigtailed photodiode.
Instrument communication interface	National Instruments	NI MAX	It comes packaged with National Instruments drivers (NI-VISA, NI-DAQmx, etc.)
Operational amplifier	Texas Instruments	TLO81ACP	
Optical Powermeter	Newport	818-IS-1 with 1835-C	
Optical spectrum analyzer	Anritsu	MS9710C	
Oscilloscope	Tektronix	TDS2022	Oscilloscope with GPIB computer connectivity.
Polarizing beamsplitter module	Thorlabs Inc.	PSCLB-VL-1550	
Polyimide Film Tape	3M	5413	Tape to fix the components on the table without damaging the fibers.
Graphical programming language interface (GPLI)	National Instruments	LabVIEW	Interface to program in G Programming Language and communicate with laboratory instruments.
Polarimeter controlling software	General Photonics Corp.	PolaView	Comes with the polarimeter General Photonics POD-101D.