

Materials List for:

Cooling an Optically Trapped Ultracold Fermi Gas by Periodical Driving

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Materials

Name	Company	Catalog Number	Comments
500 mW 671 nm ECDL	Toptica	TA Pro	Quantity: 1
35 mW 671 nm ECDL	Toptica	DL-100	Quantity: 1
671 nm AOM	Isomet	1206C	Quantity: 3
671 nm AOM Driver	Isomet	630C-110	Quantity: 3
100 W 1,064 nm CW laser	IPG photonics	YLR-100-1064-LP	Quantity: 1
1,064 nm AOM	IntraAction	ATM-804DA6B	Quantity: 1
1,064 nm AOM Driver	IntraAction	ME-805EH	Quantity: 1
Arbitrary Function Generator	Agilent	33120A	Quantity: 3
Digital I/O Board	United Electronic Industries	PD2-DIO-128	Quantity: 1
System Design Platform	National Instruments	LabVIEW	Quantity: 1
Analog Voltage Output Device	Measurement Computing	USB-3104	Quantity: 1
CCD Camera	Hamamatsu	Orca R2	Quantity: 1
Arbitrary Pulse Generator	Quantum Composer	9618+	Quantity: 1
Analog Voltage Output Device	Measurement Computing	USB-3104	Quantity: 1
20 A power supply			Quantity: 1
10 A power supply			Quantity: 1
120 A power supply			Quantity: 2
Cooling Fans			Quantity: depends on apparatus design
671 nm Mirrors			Quantity: depends on apparatus design
671 nm Half-wave Plate			Quantity: depends on apparatus design
671 nm Quarter-wave Plate			Quantity: depends on apparatus design
500 mW Beam Shutter			Quantity: depends on apparatus design
671 nm Lenses			Quantity: depends on apparatus design
Faraday Isolator			Quantity: 2, one for each ECDL
671 nm Polarizing Beam Splitter			Quantity: depends on apparatus design
Photodetector	Thorlabs	SM05PD1A	Quantity: 1
Multiplexer	Analog Devices	ADG409	Quantity: 1
Multiplexer	Analog Devices	ADG408	Quantity: 2
1,064 nm plano-concave lens			Quantity: 1 for beam reducer
1,064 nm plano-convex lens			Quantity: 1 for beam reducer

1,064 nm Mirrors			Quantity: depends on apparatus design
1,064 nm Half-wave Plates			Quantity: depends on apparatus design
1,064 nm Lenses			Quantity: depends on apparatus design
1,064 nm Thin Film Polarizer			Quantity: 1
100 W, 1,064 nm Beam Dump			Quantity: 1
100 W, 1,064 nm Power Meter			Quantity: 1
RF Function Generator	Rigol	DG4162	Quantity: 1
RF Power Amplifier	Mini-Circuits	ZHL-100W-GAN+	Quantity: 1