



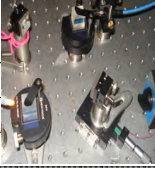
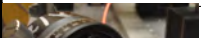
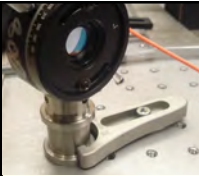






Price list for photon experiments KG last update: 12/17							
10/18							
Basic down-conversion							totals
		vendor	model	price	#	total	
mirror for blue laser	1" dielectric mirror	Thorlabs	BB1-E02	75	1	75	It is important to have a mirror that does not absorb the blue laser - Al absorbs!
	mirror mount	Thorlabs	KM100	40	1	40	
	2" pedestal	Newport		9954	26	26	
	regular fork clamp	Newport		9909	14	14	
Down conversion crystal	BBO 5x5x3mm 29deg	Newlight Photonics Inc.	NCBBO5300-405(I)-HA3	549	1	549	
	type-I						NEW- provides most convenient adjustments.
	Rotational/tilt mount	Thorlabs	KS1RS	232	1	232	
	1.5" pedestal	Newport		9953	26	26	
	regular fork clamp	Newport		9909	14		
Helpful	iris	Thorlabs	ID25SS	56	2	112	
	Magnetic mount	Thorlabs	MB175	48	2	96	
	3" post	Thorlabs	TR3	5	4	20	
	Post holder	Thorlabs	RA90	10	2	20	
	Thumbscrews	Thorlabs	TS25H	2	4	8	256

Electronics	(1) Coincidence unit software	Altera DE2 Labview	DE2	250	1	250		250
								
Optical breadboard	2'x5'x4"	Thorlabs	B3060G	1900	1	1900		1900
			Total basic downconversion					10813
Single Photon interference setup								
Mach-Zehnder	Non-polarizing beam splitters near IR 20mm	Thorlabs	BS017	190	2	380	buy together	
	Beam splitter mount	Newport		9481	336	2	672	
	1.5" pedestal	Newport		9953	26	3	78	
	mounted mirror	Edmund	M33-502		85	3	255	
	2.5" pedestal	Newport		9955	30	2	60	
	Thread adapter	Thorlabs	AP8E25E		7	2	14	
	short fork holder	Newport		9916	13	4	52	
	piezo electric linear stage	Thorlabs	AE0505D08F		131	1	131	6.6x6.5x10mm w/o amplifier
		Thorlabs	MT1		286	1	286	1928
Eraser additions	Zero-order waveplates	NewLight Photonics	WPA03-H-810	249	2	498		
	polarizer holder	Optosigma	114-0240 / GTPC-PH30	125	2	250		

	holder adapter	Optosigma	114-0420 / GTPC-ADP25.4-31	35	2	70		
	1.5" pedestal	Newport		9953	26	2	52	
	short fork holder	Newport		9916	13	2	26	
	polarizing beam splitter	Thorlabs	PBS102		183	1	183	
	Rotary mount	Thorlabs	RSP1x15		128	1	128	
	1" adapter for PBS	custom						
	Magnetic mount	Thorlabs	MB175		48	1	48	
	3" post	Thorlabs	TR3		6	2	12	
	Post holder	Thorlabs	RA90		10	1	10	
	Thumbscrews	Thorlabs	TS25H		2	2	4	
	Fiber spectrometer	Vernier	VSP-EM		1	1	800	2081
Additional electronics								
	(1) D/A interface	Arduino	custom		50	1	50	
	(2) Voltage amplifier	Emco	Q02-24		81	1	81	131
(1)								
			Additional interference					4009
	(2)							
Delayed-Choice								
	1-nm filter centered at 810	Andover	810.0/1.0-53343		345	1	345	
	20-m multimode fiber	Thorlabs	M31L20		286	1	285.6	
	20-m coaxial cable	Mouser	115101-19-M20.0		50.7	1	50.71	
	Collimator 11mm, FC	Thorlabs	F220FCB		145	1	145	
	Adapter	Thorlabs	AD11F		28	1	28	
one additional mounted collimator	Mirror mount	Thorlabs	KM100T		64	1	64	
	Threaded iris	Thorlabs	SM1D12		56	1	56	
	Magnetic mount	Thorlabs	MB175		48	1	48	

	3" post	Thorlabs	TR3	6	1	6	
	Post holder	Thorlabs	RA90	10	1	10	
	Thumbscrews	Thorlabs	TS25H	2	1	2	
			Additional Delayed-Choice experiment				1040
Entanglement/Bell setup							
	Half-wave plate 405nm	NewLight Photonics	WPA03-H-405	249	1	249	
	Rotational mount	Thorlabs	RSP1x15	128	1	128	
	Compensating crystal	Newlight	QAR25550-A-AR405	429	1	429	
	Crystal pair	Newlight	PABBO5050-405(I)-HA3	1000	1	1000	
	Rotational/tilt mount	Thorlabs	KS1RS	232	1	232	NEW
	1.5" pedestal	Newport	9953	20	1	20	
	Glan-Thompson prism	Thorlabs	GTH10M	555	2	1110	
	prism rotary holder	Optosigma	114-0240	125	2	250	
	holder adapter	Optosigma	114-0420	35	2	70	
	1.5" pedestal	Newport	9953	20	2	40	
	regular fork clamp	Newport	9909	14	2	28	
			Additional Entanglement				3556
			All				19418

