

Materials List for:

Resonance Fluorescence of an InGaAs Quantum Dot in a Planar Cavity Using Orthogonal Excitation and Detection

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Materials

| Name | Company | Catalog Number | Comments |
|--|-----------------------|---------------------|----------------------------|
| Tunable external cavity diode laser | Toptica Photonics | DL-Pro | |
| Closed-cycle cryostat | Montana Instruments | Cryostation | |
| Spectrometer, 750 mm focal length | Princeton Instruments | SpectraPro 2750 | |
| Thermoelectrically cooled charge-coupled device | Princeton Instruments | Pixis 100BR-eXcelon | |
| HeNe laser | JDSU | 1125P | |
| Infrared sensitive camera | Sony | NEX-5TL | IR blocking filter removed |
| Power meter and detector | Newport | 1918-C, 918D-IR-OD3 | |
| Adjustable aspheric fiber collimator | Thorlabs | CFC-8X-A | |
| Air-Spaced Doublet Collimator | Thorlabs | F810APC-842 | |
| Protected Silver Mirrors x 5 | Thorlabs | PF10-03-P01 | |
| Flip mounts x 2 | Thorlabs | FM90 | |
| Aspheric condenser lens, f = 20 mm; K1 | Thorlabs | ACL2520-B | |
| Best form spherical lens, f = 50 mm; E2, L1, L2, K2 | Thorlabs | LBF254-050-B | |
| Best form spherical lens, f = 100 mm; E1, L4, K3, K4 | Thorlabs | LBF254-100-B | |
| Best form spherical lens, f = 200 mm; Lspec, Lcam | Thorlabs | LBF254-200-B | |
| Plano-convex lens, f = 400 mm; L3 | Thorlabs | LA1172-B | |
| Molded glass aspheric lens, f = 8 mm; Eobj | Thorlabs | C240TME-B | |
| Precision asphere, f = 10 mm; Lobj | Thorlabs | AL1210-B | |
| Longpass Filters, 800 nm, x2 | Thorlabs | FEL0800 | |
| Non-polarizing beam splitter cube (NPBS) | Thorlabs | BS029 | |
| Pellicle beam splitter | Thorlabs | BP108 | |
| Polarizer | Thorlabs | LPNIRE100-B | |
| Light emitting diode, 940 nm | Thorlabs | M940D2 | |