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Phase transitions in individual sub-micrometre superconduct

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#	Paper	IF	Citations
368	Paramagnetic Meissner effect in small superconductors. <i>Nature</i> , <b>1998</b> , 396, 144-146	50.4	204
367	Non-invasive measurements of mesoscopic superconductors by superconducting single electron transistors. <b>1998</b> , 42, 1463-1466		1
366	Electrical transport through magnetic barrier structures. <b>1998</b> , 2, 899-903		
365	Vortex matter in mesoscopic superconductors. <b>1998</b> , 256-258, 610-617		22
364	Vortex Phase Diagram for Mesoscopic Superconducting Disks. <i>Physical Review Letters</i> , <b>1998</b> , 81, 2783-2786	3.4	325
363	Organic Superconducting Thin Films Generated at a Single Crystal-Solution Interface. <b>1998</b> , 120, 7993-7994		8
362	Phase transitions in thin mesoscopic superconducting disks. <i>Physical Review B</i> , <b>1998</b> , 57, 13817-13832	3.3	187
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359	Vortices in Ginzburg-Landau billiards. <b>1999</b> , 32, 7133-7143		24
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357	Flux-induced vortex in mesoscopic superconducting loops. <i>Physical Review B</i> , <b>1999</b> , 59, 8896-8901	3.3	31
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347	Quantum states in a magnetic antidot. <i>Physical Review B</i> , <b>1999</b> , 59, 2817-2823	3-3	89
346	Magnetic Flux Configuration in Mesoscopic Superconductor Probed by Scanning Tunneling Spectroscopy. <b>1999</b> , 68, 2872-2873		3
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192	Nucleation of Vortices and Anti-Vortices in Mesoscopic Superconducting Discs. <b>2008</b> , 150, 654-659		
191	The Vortex State and Josephson Critical Current of a Diffusive SNS Junction. <b>2008</b> , 153, 304-324		37
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189	Size-dependence of vortex shells in mesoscopic superconducting disks. <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 726-729	1.3	9
188	Triplet vortex state in magnetic superconductors [Effects of boundaries. <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 572-575	1.3	1
187	Scanning Hall probe microscopy of vortex patterns in superconducting micro-squares. <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 837-839	1.3	
186	Magnetic response of superconducting mesoscopic-size YBCO powder. <b>2008</b> , 320, e507-e509		2
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184	Giant vortex structures in nanometer-scale spherical type-II superconducting samples. <b>2008</b> , 21, 065010		5
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180	Magnetoresistance anisotropy of a one-dimensional superconducting niobium strip. <i>Physical Review Letters</i> , <b>2008</b> , 101, 077003	7.4	12
179	Different regimes of nucleation of superconductivity in mesoscopic superconductor/ferromagnet hybrids. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	5
178	Temperature dependence of domain-wall depinning fields in constricted Permalloy nanowires. <i>Journal of Applied Physics</i> , <b>2008</b> , 103, 073909	2.5	16
177	Cryogenic transimpedance amplifier for micromechanical capacitive sensors. <b>2008</b> , 79, 084703		12
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174	Dissipation spots generated by vortex nucleation points in mesoscopic superconductors driven by microwave magnetic fields. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	8
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172	Analytical and numerical study of a curved planar waveguide with combined Dirichlet and Neumann boundary conditions in a uniform magnetic field. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	8

171	Magnetization of a superconducting film in a perpendicular magnetic field. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	13
170	Vortex states in mesoscopic superconducting squares: Formation of vortex shells. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	32
169	Vortex configurations in mesoscopic superconducting triangles: Finite-size and shape effects. <i>Europhysics Letters</i> , <b>2008</b> , 83, 17008	1.6	26
168	Unconventional vortex dynamics in mesoscopic superconducting Corbino disks. <i>Physical Review Letters</i> , <b>2009</b> , 102, 197003	7.4	17
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165	Second generation of vortex-antivortex states in mesoscopic superconductors: Stabilization by artificial pinning. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	17
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157	Effect of supercurrent injection on vortex penetration and expulsion fields in mesoscopic superconducting squares. <i>Physica C: Superconductivity and Its Applications</i> , <b>2009</b> , 469, 1080-1083	1.3	4
156	Bound states of Dirac electrons in a graphene-based magnetic quantum dot. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2009</b> , 373, 4082-4085	2.3	23
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154	The bias- and temperature-dependent electron transport in a magnetic nanostructure. <b>2009</b> , 255, 3829-3832		9

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144	Scanning SQUID microscope study of vortex polygons and shells in weak-pinning disks of an amorphous superconducting film. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	26
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140	Bound states in a hybrid magnetic-electric quantum dot. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 064306	2.5	5
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134	Vortex states in layered mesoscopic superconductors. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	22
133	Resonant alteration of propagation in guiding structures with complex Robin parameter and its magnetic-field-induced restoration. <b>2011</b> , 326, 1479-1500		11
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131	Two-dimensional Bloch electrons under strong magnetic modulation. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	3
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126	Phase-locked cantilever magnetometry. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 132510	3-4	10
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120	Extended Ginzburg-Landau formalism: Systematic expansion in small deviation from the critical temperature. <i>Physical Review B</i> , <b>2012</b> , 85,	3-3	33
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103	Self-consistent electronic structure of multiquantum vortices in superconductors at $T \ll T_c$ . <i>Journal of Physics Condensed Matter</i> , <b>2013</b> , 25, 225702	1-8	1
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88	Vortex crossing and trapping in doubly connected mesoscopic loops of a single-crystal type-II superconductor. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	5
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84	Rayleigh instability of confined vortex droplets in critical superconductors. <b>2015</b> , 11, 21-25		16
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62	Magnetic flux penetration into finite length thin-walled niobium cylinders. <i>Physica C: Superconductivity and Its Applications</i> , <b>2018</b> , 545, 10-13	1.3	
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45	Electronic structure of a mesoscopic superconducting disk: Quasiparticle tunneling between the giant vortex core and the disk edge. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	0
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41	Conductance Spectroscopy of Exfoliated Thin Flakes of Nb BiSe. <i>Nano Letters</i> , <b>2019</b> , 19, 38-45	11.5	8
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