

Name		Konstantin Yu. ARUTYUNOV
PROFESSIONAL APPOINTMENTS		
2014-pr.	Professor: Moscow Institute of Electronics and Mathematics Research University High School of Economy <u>Research:</u> Low-T nanoelectronics, quantum size and interface phenomena at nanoscales, applied nanotechnology	
2004-2014	Associate Professor, Docent, NanoScience Centre, University of Jyväskylä (Finland), PI Quantum nanoelectronics. <u>Research:</u> Low-T nanoelectronics, quantum size and interface phenomena at nanoscales, applied nanotechnology.	
2002-2004	Assistant professor, Docent, Department of Physics, University of Jyväskylä (Finland), Group of Prof. J. Pekola <u>Research:</u> Low-T and ultra-low-T study of 1-D nanostructures and NIS hybrid systems.	
1998-2002	Senior researcher, Department of Physics, University of Jyväskylä (Finland), group of Prof. J. Pekola <u>Research:</u> Experimental study of electron transport properties of various metal and hybrid nanostructures. Quasiparticle cooling effect in NIS systems. Experimental study of transport properties of various metal nanostructures. Non-local interaction in mesoscopic-size superconducting structures.	
1998	Research Fellow, Lab. Vaste-Stoffysica en Magnetism, Katholieke University Leuven (Belgium), group of Prof. J. Indekeu. <u>Research:</u> Experimental study of interface phenomena in superconductors	
1995-1998	Prime Assistant, Physics Faculty, Lausanne University (Switzerland), groups of Prof. J. Dietler and Prof. L. Rinderer. <u>Research:</u> Experimental study of transport properties (V(T,H,I) characteristics) of various superconducting nanostructures and M(H,T) dependencies of ultra-thin single crystalline wires using self-made SQUID magnetometer. Design of the liquid helium cooled stage for atomic force microscope.	
1989-1995	Junior Scientific Researcher / Scientific Researcher, High-T _c group, Low Temperature Lab, Physics Faculty, Moscow State University, group of Prof. V. Moshchalkov. <u>Research:</u> Experimental study of transport properties of various high-T _c materials; current-induced non-equilibrium resistive state in quasi-1-D conventional superconductors: whiskers and (sub)micron filaments.	
FUNDING, GRANTS AND AWARDS		
2020-21	PI of the HSE grant "Mirror labs" 1.5 MRUB	
2019	PI of the HSE grant 19-01-050 "Superconducting systems with high kinetic inductance" 0.8 MRUB	
2018-pr.	Head of the lab "Quantum nanoelectronics" 6 MRUB/annually	
2018	PI of the HSE grant T3-93 "Quantum solid state systems" 1.235 MRUB	
2017-18	PI of Greek-Russian project "Experimental and theoretical studies of physical properties of low dimensional quantum nanoelectronic systems " 1 MEuro	
2017-18	PI of the HSE grant "Quantum cooperative phenomena at low and ultra-low temperatures", 1.235 MRUB	
2016-18	PI of Russian National foundation grant "Quantum fluctuations in superconducting nanostructures", 18 MRUB	
2015-16	PI of the HSE personal grant "Study of quantum size phenomena in metallic nanostructures", 0.6 MRUB.	
2012-14	PI of the international project "NanoVision: Nanotechnology for medical applications", 115 k€	
2010 -14	PI of the Finnish Technical Academy project "Demanding applications: friction and energy", 108 k€	
2010 -12	PI and invited leading scientist, Russian Ministry of Science and Education project No. 02.740.11.5157 "Quantum standard of electric current", 2 MRUB	
2008	PI of the Jyväskylä Innovation park JOSKE project "Applications of Ion Beam Etching Technique", 17 k€.	
2007-09	PI of the Finnish Academy of Science research project FUNANO "Functional nanoparticles and devices", total budget 780 k€, group budget 60 k€.	
2006-07	PI TULE grant, Jyväskylä scientific park "Commercial potential of the ion beam nanofabrication", 6000 €.	
2004-07	Author, PI and scientific manager - EU Commission FP6 NMP-3 "ULTRA-1D" project 505457 "Experimental and theoretical investigation of electron transport in ultra-narrow 1-dimensional nanostructures", 2.4 M€ total budget, 670 k€ node budget PI EU Commission FP6 NMP-3 "SFINX" project 505587 "Superconductivity – Ferromagnetism Interplay in Nanostructured Hybrid Systems", 1.8 M€ total budget, 340 k€ node budget	
2004-06	PI , Russian Academy of Science Foundation for Basic Research 04-02-17397-A "Experimental study of spin-polarized injection of nonequilibrium quasiparticle excitations into a superconductor", 350 000 RUB	
2000-03	PI , grant of Russian Academy of Science Foundation for Basic Research "Experimental investigation of phase-sensitive electron transport in normal and superconducting nanostructures", 250 000 RUB	
1998-00	PI , grant of Russian Academy of Science Foundation for Basic Research "Experimental study of hybrid nanostructures metal - superconductor", 150 000 RUB	
1995-97	PI , grant of Russian Academy of Science Foundation for Basic Research "Experimental study of superconducting mesoscopic systems", 110 000 RUB	
1995	Annual Competition of Young Scientists, Moscow State University - II place	