## List of Jointly Selected Proposals for the 2018 DST-RFBR Call

Sr.	Project Number	Project Title	Indian PI	Russian PI
No.		Development of decision	Manai Thaluur	
1	INT/RUS/RFBR/305	Development of decision	Manoj Thakur	Akopov Andranik
		support systems integrating		
		parallel adaptive heuristic		
		algorithms for large-scale		
		multi-objective optimization		
		problems for socio-economic		
		and environmental planning		
2	INT/RUS/RFBR/306	Development of models of	Priti Kumar Roy	Khailov Evgenii
		immune-dependent disorders		
		and finding optimal strategies		
		for their treatment: analytical		
		and computational approaches		
3	INT/RUS/RFBR/307	Modeling the dynamics and	Bapan Ghosh	Frisman Efim
		evolution of predator-prey		
		communities under		
		anthropogenic impacts:		
		Comparison of discrete and		
		continuous time approaches		
4	INT/RUS/RFBR/308	Investigations of	Praveen Agarwal	Pskhu Arsen
		multidimensional fractional	C C	
		diffusion-wave equations and		
		their application to the study of		
		dissipative physical processes		
5	INT/RUS/RFBR/309	Multi-colored link invariants	Ramadevi Pichai	Mironov Andrey
5			Kamadevi i lenai	which one value y
6	INT/RUS/RFBR/310	The type 2 diabetes-induced	Dr. Vikas Kumar Roy	Shpakov Alexandr
		changes in the regulatory		
		effects of apelin and leptin on		
		the steroidogenesis and		
		spermatogenesis in the		
		rodents' testes and the		
		approaches to their correction		
7	INT/RUS/RFBR/311	Novel aspects of molecular	Aklank Jain	Imyanitov Evgeny
		pathogenesis of hereditary		
		breast cancer		
8	INT/RUS/RFBR/312	Optical Metrology of Ultra-	Surinder Singh	Anashkina Elena
5		Short Pulses for Design of	Samaci Singh	
		Flexible MIMO Based Next		
		Generation Optical		
		Communication Networks		
0			lavaram N	Ductilaile Somer
9	INT/RUS/RFBR/313	Study of void galaxies in the	Jayaram N.	Pustilnik Semen
		local Universe: gas-rich	Chengalur	
		extremely low metallicity		

		dwarfs		
10	INT/RUS/RFBR/314	Theory and modeling of nonequilibrium and spintronics phenomena in superconductor- ferromagnet-superconductor structures.	Krishnendu Sengupta	Shukrinov Yury
11	INT/RUS/RFBR/315	Inflation and late time acceleration of the Universe and its observational signatures.	Mohammad Sami	Kamenshchik Alexandr
12	INT/RUS/RFBR/316	Optimization of Heusler based nanocomposite materials for thermoelectric energy conversion	Satyabrata Patnaik	Khovaylo Vladimir
13	INT/RUS/RFBR/317	Plasmonic structures with broken time and space symmetries	Achanta Venu Gopal	Belotelov Vladimir
14	INT/RUS/RFBR/318	Active plasmonics: modifying the light emission of quantum emitters using optical resonances induced by metal- dielectric nanophotonic structures	Rajesh V. Nair	Fedyanin Andrey
15	INT/RUS/RFBR/319	High Mobility Single Crystals for n-Channel Organic Field-Effect Transistors	Surya Prakash Singh	Paraschuk Dmitry
16	INT/RUS/RFBR/320	Synthesis and study of properties of electrochemically active composites based on lithium intercalated silicates of iron, manganese, cobalt and having high electron conductivity carbo-silicides of transition metals	Ambesh Dixit	Ivanishchev Alexandr
17	INT/RUS/RFBR/321	Study of human anti-sialoside antibodies by methods of chemical biology	Jaideep Saha	Bovin Nikolai
18	INT/RUS/RFBR/322	Directed functionalization of oxide and carbon nanomaterials for the development of efficient catalysts for carbon dioxide conversion into value-added products	Pankaj Bharali	Kerzhentsev Mikhail

19	INT/RUS/RFBR/323	Catalytic Transformation of Indian and Russian Origin Biomass Feedstocks to Biofuel via Levulinic Acid	Vijay V. Bokade	Simakova Irian
20	INT/RUS/RFBR/324	Ultrasonic encapsulation of bioactive compounds to deliver in the food matrix	Shirish H Sonawane	Potoroko Irian
21	INT/RUS/RFBR/325	Effect of Ion Specificity on Nano-Structuring in Ion- Containing Polymer Systems Caused by Ion Association in Organic and Aqueous Media: Complex Experimental and Theoretical Study	Priyadarsi De	Kramarenko Elena
22	INT/RUS/RFBR/326	Ru and Os Complex Catalyzed Activation and Functionalization of Alkane C-H Bonds.	Sabuj Kundu	Belkova Natalia
23	INT/RUS/RFBR/327	Novel wide bandgap copolymers featuring excellent comprehensive characteristics towards practical application for organic solar cells	Ganesh Datt Sharma	Nikolaev Alexander
24	INT/RUS/RFBR/328	Unraveling the links between bioenergetics constrains, cell wall integrity, and multidrug resistance in fungi	Rajendra Prasad	Knorre Dmitry
25	INT/RUS/RFBR/329	Histochemistry, Ultrastructure and Targeted Metabolomics in Fragrant Flowers of Some	Adinpunya Mitra	Muravnik Lyudmila
26	INT/RUS/RFBR/330	Integrative study of parasitic crustacean copepods from coral communities of the Northwest Indian Ocean	SUDHA KAPPALLI	lvanenko viatcheslav
27	INT/RUS/RFBR/331	Regulation of TGF-β-induced CCL2 gene expression and impact of CCR2-postive cell populations on breast cancer progression	Arindam Bhattacharyya	Kuprash Dmitry
28	INT/RUS/RFBR/332	Investigation of fundamental mechanisms of regeneration of deep-layer skin wounds in response to treatment with polyelectrolyte-hydrogel complex dressings and gene therapy	Arindam Bit	Salafutdinov Ilnur

29	INT/RUS/RFBR/333	Development of Upconversion Nanoparticles Loaded with	Jayaraman Senthilselvan	Zvyagin Andtrei
		Anticancer Drugs for Solid Tumor Theranostics		
30	INT/RUS/RFBR/334	Himalaya-Burma arc: modeling of seismicity and recognition of earthquake-prone areas	Prantik Mandal	Gorshkov Alexander
31	INT/RUS/RFBR/335	Collision tectonics and seismicity in the Alpine- Himalayan belt: A comparative study between Great Caucasus	Surendra Nadh Somala	Rogozhin Evgeny
32	INT/RUS/RFBR/336	(Russia) and Himalaya (India) Analysis of urban 'heat islands', air pollution dynamics and extreme weather phenomena in India and Russia	Krushna Chandra GOUDA	Lokoshchenko Mikhail
33	INT/RUS/RFBR/337	GLOBAL BIODIVERSITY, EVOLUTION AND BIOGEOGRAHICAL CONNECTIONS OF BELEMNTES FROM THE SOUTHERN AND NORTHERN HEMISPHERES AROUND THE EARLY/LATE CRETACEOUS BOUNDARY	Desai Bhawanisingh Gaurang	Ippolitov Alexei
34	INT/RUS/RFBR/338	Development of methods for in-season monitoring of sugarcane crop in Peninsular India using Earth Observations for precision water and nitrogen management	Virupakshagouda Channabasappagou da Patil	Bartalev Sergey
35	INT/RUS/RFBR/339	Identification and modelling of microplastics transport in the coastal areas under the influence of dominant wind patterns	R. Venkatachalapathy	Bagaev Andrei
36	INT/RUS/RFBR/340	Irregular wave transformation over the submerged sand bars and mudbanks: role of dissipation and nonlinear processes	Samiksha S. Volvaiker	Kuznetsov Sergey
37	INT/RUS/RFBR/341	Research and development of ultra-wideband emitters and smart antennas for different radio systems	Malay Ranjan Tripathy	Lagovsky Boris
38	INT/RUS/RFBR/342	An adaptive security System for optimum inter-domain Virtual Machines (VM) migration	Maninder Singh	Perl Ivan

	management in dynamic cloud		
	environment		
INT/RUS/RFBR/343	Intelligent Control of Multi		
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		Laxmidhar Behera	Rybak Laris
		Kandasamy	Syrtsova Daria
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INT/RUS/REBR/345		-	Pakhomov Maksim
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INT/RUS/REBR/346		Krishnaivengar	Polyakova Marina
1417 KOS/ KI DIQ 540			
		Narasinnan	
INT/RUS/RFBR/347	•		
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		Vinod Kumar	Vlaskin Mikhail
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INT/RUS/RFBR/348			
		Vaibhav Kulshrestha	Raskulova Tatyana
INT/RUS/RFBR/349			
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	-	Puneet Tandon	Pesin Alexandr
	strength (UHS) materials		
INT/RUS/RFBR/350	Heat transfer intensification in		
	novel design micro-pin-fin heat		
	sink for microprocessor cooling	Ritunesh Kumar	Abiev Rufat
INT/RUS/RFBR/351	Thermo-hydrodynamics of	Krishnamurthy	Kabov Oleg
INT/RUS/RFBR/352	Autonomous calibration of		
,,		Subir Kumar Saha	Magid Evgeni
	INT/RUS/RFBR/351 INT/RUS/RFBR/352	INT/RUS/RFBR/343Intelligent Control of Multi robot systems based on serial and parallel manipulators in Cyber Physical FrameworkINT/RUS/RFBR/344Membrane processes for CO2 	INT/RUS/RFBR/343Intelligent Control of Multi robot systems based on serial and parallel manipulators in Cyber Physical FrameworkLaxmidhar BeheraINT/RUS/RFBR/344Membrane processes for CO2 Membrane processes for CO2Kandasamy PALANIVELUINT/RUS/RFBR/345The study of flow, turbulence and heat transfer enhancement in a gas-liquid near-wall bubble breakup and coalescence.Prasanta Kumar DasINT/RUS/RFBR/346Systematic analysis of the effect of combined mode of deformation on the structure and properties of pearlitic grade steel wiresKrishnaiyengar NarasimhanINT/RUS/RFBR/347Municipal wastewater treatment by microalgae and its following hydrothermal liquefaction to reach the sustainable and efficient use of renewable resourcesVinod KumarINT/RUS/RFBR/348New ion-conducting Hybrid Membranes for Electro- membrane Processes and Energy ApplicationsPuneet Tandon complex parts of ultra-high strength (UHS) materialsINT/RUS/RFBR/350Heat transfer intensification in novel design micro-pin-fin heat sink for microprocessor cooling with improved temperature uniformityRitunesh KumarINT/RUS/RFBR/351Thermo-hydrodynamics of robut cameras using on-bodyKrishnamurthy Muralidhar

Project coordinators are being informed separately to complete administrative formalities for release of DST grant.