

Several complex variables and analytic spaces

Non-Archimedean analysis (should also be assigned at least one other classification number from Section 32-XX describing the type of problem)			Holomorphic functions of several complex variables		
Non-Archimedean analysis (should also be assigned at least one other classification number from Section 32-XX describing the type of problem)			Normal families of holomorphic functions, mappings of several complex variables, and related topics (taut manifolds etc.)		
Holomorphic mappings and correspondences			Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30-XX)		
Iteration of holomorphic maps, fixed points of holomorphic maps and related problems for several complex variables			Other spaces of holomorphic functions of several complex variables (e.g., bounded mean oscillation (e.g., Cauchy, Fantappiè-type kernels) (BMOA), vanishing mean oscillation (VMOA))		
Holomorphic mappings, (holomorphic) embeddings and related questions in several complex variables			Integral representations, constructed kernels (e.g., Cauchy, Fantappiè-type kernels)		
Picard-type theorems and generalizations			Multifunctions of several complex variables		
Boundary uniqueness of mappings			Nevanlinna theory; growth estimates; other inequalities of several complex variables		
Boundary regularity of mappings for several complex variables			Functional analysis techniques applied to functions of several complex variables		
Proper holomorphic mappings, finiteness theorems			Residues for several complex variables		
Meromorphic mappings in several complex variables			H^n -spaces, Nevanlinna spaces of functions in several complex variables		
Value distribution theory in higher dimensions			Banach algebra techniques applied to functions of several complex variables		
Holomorphic convexity			Boundary behavior of holomorphic functions of several complex variables		
Holomorphic, polynomial and rational approximation, and interpolation in several complex variables; Runge pairs			Integral representations; canonical kernels (Szegő, Bergman, etc.)		
Global boundary behavior of holomorphic functions of several complex variables			Polynomials and rational functions of several complex variables		
Stein spaces, Stein manifolds			Zero sets of holomorphic functions of several complex variables		
The Levi problem			Power series, series of functions of several complex variables		
			Bloch functions, normal functions of several complex variables		
			Algebras of holomorphic functions of several complex variables		
			Singular integrals of functions in several complex variables		
			Special families of functions of several complex variables		
			Bergman spaces of functions in several complex variables		
			Holomorphic functions of several complex variables		
			Entire functions of several complex variables		
			Meromorphic functions of several complex variables		
			Harmonic analysis of Hyperfunctions		
Complex singularities			Deformations of analytic structures		
Topological aspects of complex singularities; theorems, topological classification, invariants			Moduli and deformations for ordinary differential equations (e.g., Knizhnik-Zamolodchikov equation)		
Stratifications; constructible sheaves; intersection cohomology (complex-analytic aspects)			Moduli of Riemann surfaces, Teichmüller theory (complex-analytic aspects in several variables)		
Monodromy; relations with differential equations and D -modules (complex-analytic aspects)			Deformations of submanifolds and subspaces		
Milnor fibration; relations with knot theory			Applications of deformations of analytic structures to the sciences		
Equisingularity (topological and analytic)			Deformations of complex structures		
Relations with arrangements of hyperplanes			Complex-analytic moduli problems		
Other operations on complex singularities			Period matrices, variation of Hodge structure; degenerations		
Modifications; resolution of singularities (complex-analytic aspects)			Deformations of fiber bundles		
Global theory of complex singularities; cohomological properties			Deformations of special (e.g., CR) structures		
Mixed Hodge theory of singular varieties (complex-analytic aspects)					
Invariants of analytic local rings					
Deformations of complex singularities; vanishing cycles					
Singularities of holomorphic vector fields and foliations					
Local complex singularities					
Complex surface and hypersurface singularities					
Complex manifolds			Complex spaces with a group of automorphisms		
Special domains (Reinhardt, Hartogs, circular, tube, etc.) in \mathbb{C}^n and complex manifolds			Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras (complex-analytic aspects)		
Calabi-Yau theory (complex-analytic aspects)			Automorphism groups of other complex spaces		
Notions of stability for complex manifolds			Almost homogeneous manifolds and spaces		
Embedding theorems for complex manifolds			Automorphism groups of \mathbb{C}^n and affine manifolds		
Topological aspects of complex manifolds			Complex vector fields, holomorphic foliations, \mathbb{C} -actions		
Negative curvature complex manifolds					
Positive curvature complex manifolds					
Uniformization of complex manifolds					
Oka principle and Oka manifolds					
Complex manifolds as subdomains of Euclidean space					
Kähler-Einstein manifolds					
Hyperbolic and Kobayashi hyperbolic manifolds					
Almost complex manifolds					
Pseudoholomorphic curves					
Classification theorems for complex manifolds					
Kähler manifolds					
Stein manifolds					
Local analytic geometry			Holomorphic fiber spaces		
Triangulation and topological properties of semi-analytic andsubanalytic sets, and related questions			Sheaves and cohomology of sections of holomorphic vector bundles, general results		
Analytic algebras and generalizations, preparation theorems			Holomorphic bundles and generalizations		
Analytic subsets of affine space			Twistor theory, double fibrations (complex-analytic aspects)		
Semi-analytic sets, subanalytic sets, and generalizations			Applications of holomorphic fiber spaces to the sciences		
Germs of analytic sets, local parametrization			Vanishing theorems		
			Bundle convexity		
Analytic spaces			Automorphic functions		
Real-analytic sets, complex Nash functions			Automorphic functions in symmetric domains		
Analytic sheaves and cohomology groups			General theory of automorphic functions of several complex variables		
Embedding of real-analytic manifolds			Automorphic forms in several complex variables		
Duality theorems for analytic spaces			Generalizations of analytic spaces		
Local cohomology of analytic spaces			Holomorphic maps with infinite-dimensional arguments or values		
Applications of analytic spaces to physics and other areas of science			Banach analytic manifolds and spaces		
Analytic subsets and submanifolds			Differentiable functions on analytic spaces, differentiable spaces		
Sheaves of differential operators and their modules, D -modules					
Embedding of analytic spaces					
Topology of analytic spaces					
The Levi problem in complex spaces; generalizations					
Integration on analytic sets and spaces, currents					
Real-analytic manifolds, real-analytic spaces					
Normal analytic spaces					
Complex supergeometry					
Complex spaces					
CR manifolds			Geometric convexity in several complex variables		
Finite-type conditions on CR manifolds			Other notions of convexity in relation to several complex variables		
Real submanifolds in complex manifolds			Invariant metrics and pseudodistances in several complex variables		
CR manifolds as boundaries of domains			Analytical consequences of geometric convexity (vanishing theorems, etc.)		
Extension of functions and other analytic objects from CR manifolds			Finite-type conditions for the boundary of a domain		
CR structures, CR operators, and generalizations			Topological consequences of geometric convexity		
Embeddings of CR manifolds					
CR functions					
Analysis on CR manifolds					
Pseudoconvex domains			Analytic continuation		
Geometric and analytic invariants on weakly pseudoconvex boundaries			Continuation of analytic objects in several complex variables		
Strongly pseudoconvex domains			Removable singularities in several complex variables		
Domains of holomorphy			Envelopes of holomorphy		
Exhaustion functions			Domains of holomorphy		
Finite-type domains			Riemann domains		
Peak functions					
Worm domains					

Special functions

Hypergeometric functions		Basic hypergeometric functions	
Orthogonal polynomials and functions in several variables		Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)	
Orthogonal polynomials and functions expressible in terms of special functions in one variable type (Jacobi, Laguerre, Hermite, Askey scheme, etc.)		Connections of basic hypergeometric functions with quantum groups, Chevalley groups, p -adic groups, Hecke algebras, and related topics	
Hypergeometric integrals and functions defined by them (E , G , H and I functions)		Orthogonal polynomials and functions in several variables expressible in terms of basic hypergeometric functions in one variable	
Connections of hypergeometric functions with groups and algebras, and related topics		Bibasic functions and multiple bases	
Applications of hypergeometric functions		Other basic hypergeometric functions and integrals in several variables	
Appell, Horn and Lauricella functions		q -gamma functions, q -beta functions and integrals	
Orthogonal polynomials and functions associated with root systems		Basic hypergeometric functions in one variable, ${}_p\phi_q$	
Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$		Basic hypergeometric integrals and functions defined by them	
Other hypergeometric functions and integrals in several variables		Applications of basic hypergeometric functions	
Bessel and Airy functions, cylinder functions, ${}_0F_1$		Other special functions	
Hypergeometric functions associated with root systems		Lamé, Mathieu, and spheroidal wave functions	
Generalized hypergeometric series, ${}_pF_q$		Mittag-Leffler functions and generalizations	
Classical hypergeometric functions, ${}_2F_1$		Other functions coming from differential difference and integral equations	
Elliptic integrals as hypergeometric functions		Special functions in characteristic p (gamma functions, etc.)	
Spherical harmonics		Elliptic functions and integrals	
		Painlevé-type functions	
		Other functions defined by series and integrals	
		Other wave functions	
Elementary classical functions		History of special functions	
Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)			
Exponential and trigonometric functions			
Gamma, beta and polygamma functions			
Higher logarithm functions			
Computational aspects of special functions			
Symbolic computation of special functions (Gosper and Zeilberger algorithms, etc.)		Numerical approximation and evaluation of special functions	