

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)			Complex singularities		
Non-Archimedean analysis (should also be assigned at least one other classification number from Section 32-XX describing the type of problem)			Topological aspects of complex singularities: Lefschetz theorems, topological classification, invariants		
Holomorphic convexity			Stratifications; constructible sheaves; intersection cohomology (complex-analytic aspects)		
Holomorphic, polynomial and rational approximation, and interpolation in several complex variables; Runge pairs		Global boundary behavior of holomorphic functions of several complex variables	Monodromy; relations with differential equations and D -modules (complex-analytic aspects)		
Polynomial convexity, rational convexity, meromorphic convexity in several complex variables		Holomorphically convex complex spaces, reduction theory	The Levi problem		
Stein spaces, Stein manifolds			Other operations on complex singularities		
Computational methods for problems pertaining to several complex variables and analytic spaces			Global theory of complex singularities; cohomological properties		
			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		
Holomorphic functions of several complex variables			Pseudoconvex domains		
Normal families of holomorphic functions, mappings of several complex variables, and related topics (taut manifolds etc.)		Integral representations, constructed kernels (e.g., Cauchy, Fantappiè-type kernels)	Geometric and analytic invariants on weakly pseudoconvex boundaries		
Other generalizations of function theory of one complex variable (should also be assigned at least one classification number from Section 30-XX)		Other spaces of holomorphic functions of several complex variables (e.g., bounded mean oscillation (BMOA), vanishing mean oscillation (VMOA))	Domains of holomorphy		
Multifunctions of several complex variables		Nevanlinna theory; growth estimates; other inequalities of several complex variables	Strongly pseudoconvex domains		
			Exhaustion functions		
			Finite-type domains		
			Peak functions		
			Worm domains		
			History of several complex variables and analytic spaces		
Functional analysis techniques applied to functions of several complex variables		Residues for several complex variables	Holomorphic functions of several complex variables		
H^p -spaces, Nevanlinna spaces of functions in several complex variables		Boundary behavior of holomorphic functions of several complex variables	Bergman spaces of functions in several complex variables		
Banach algebra techniques applied to functions of several complex variables		Integral representations; canonical kernels (Szegő, Bergman, etc.)	Singular integrals of functions in several complex variables		
Polynomials and rational functions of several complex variables		Zero sets of holomorphic functions of several complex variables	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	Special families of functions of several complex variables		
Entire functions of several complex variables		Meromorphic functions of several complex variables	Harmonic analysis of several complex variables		
Complex manifolds			Complex spaces with a group of automorphisms		
Special domains (Reinhardt, Hartogs, circular, tube, etc.) in \mathbb{C}^n and complex manifolds		Embedding theorems for complex manifolds	Hermitian symmetric spaces, bounded symmetric domains, Jordan algebras (complex-analytic aspects)		
Calabi-Yau theory (complex-analytic aspects)		Notions of stability for complex manifolds	Almost homogeneous manifolds and spaces		
Topological aspects of complex manifolds		Negative curvature complex manifolds	Automorphism groups of other complex spaces		
Positive curvature complex manifolds		Uniformization of complex manifolds	Automorphism groups of \mathbb{C}^n and affine 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		Stein manifolds			
Local analytic geometry			Holomorphic fiber spaces		
Triangulation and topological properties of semi-analytic andsubanalytic sets, and related questions		Analytic subsets of affine space	Sheaves and cohomology of sections of holomorphic vector bundles, general results		
Analytic algebras and generalizations, preparation theorems		Semi-analytic sets, subanalytic sets, and generalizations	Twistor theory, double fibrations (complex-analytic aspects)		
Germs of analytic sets, local parametrization			Holomorphic bundles and generalizations		
			Applications of holomorphic fiber spaces to the sciences		
			Vanishing theorems		
			Bundle convexity		
Pluripotential theory			Generalizations of analytic spaces		
Removable sets in pluripotential theory		General pluripotential theory	Holomorphic maps with infinite-dimensional arguments or values		
Plurisubharmonic exhaustion functions		Capacity theory and generalizations	Formal and graded complex spaces		
Plurisubharmonic extremal functions, pluricomplex Green functions		Plurisubharmonic functions and generalizations	Banach analytic manifolds and spaces		
Lelong numbers		Currents	Differentiable functions on analytic spaces, differentiable spaces		
CR manifolds			Differential operators in several variables		
Finite-type conditions on CR manifolds		Extension of functions and other analytic objects from CR manifolds	$\bar{\partial}_b$ and $\bar{\partial}_b$ -Neumann operators		
Real submanifolds in complex manifolds		CR structures, CR operators, and generalizations	Complex Monge-Ampère operators		
CR manifolds as boundaries of domains		Embeddings of CR manifolds	Heat kernels in several complex variables		
Analysis on CR manifolds		CR functions	Pseudodifferential operators in several complex variables		
			Other partial differential equations of complex analysis in several variables		
			$\bar{\partial}$ and $\bar{\partial}$ -Neumann operators		
Geometric convexity in several complex variables			Compact analytic spaces		
Other notions of convexity in relation to several complex variables		q -convexity, q -concavity	Compactification of analytic spaces		
Invariant metrics and pseudodistances in several complex variables		Finite-type conditions for the boundary of a domain	Compact Kähler manifolds: generalizations, classification		
Analytical consequences of geometric convexity (vanishing theorems, etc.)		Topological consequences of geometric convexity	Transcendental methods of algebraic geometry (complex-analytic aspects)		
Automorphic functions			Applications of compact analytic spaces to the sciences		
Automorphic functions in symmetric domains		Automorphic forms in several complex variables	Algebraic dependence theorems		
General theory of automorphic functions of several complex variables			Compact complex 3-folds		
			Compact complex n -folds		
			Compact complex surfaces		
Analytic continuation			Elementary classical functions		
Continuation of analytic objects in several complex variables		Domains of holomorphy	Incomplete beta and gamma functions (error functions, probability integral, Fresnel integrals)		
Removable singularities in several complex variables		Envelopes of holomorphy	Gamma, beta and polygamma functions		
Riemann domains			Exponential and trigonometric functions		
			Higher logarithm functions		
Hypergeometric functions			Computational aspects of special functions		
Orthogonal polynomials and functions in several variables		Hypergeometric integrals and functions defined expressible in terms of special functions in one variable	Symbolic computation of special functions (Gosper and Zeilberger algorithms, etc.)		
Orthogonal polynomials and functions of hypergeometric type (Jacobi, Laguerre, Hermite, Askey scheme, etc.)		Connections of hypergeometric functions with groups and algebras, and related topics	Numerical approximation and evaluation of special functions		
Applications of hypergeometric functions		Appell, Horn and Lauricella functions	History of special functions		
		Generalized hypergeometric series, ${}_pF_q$			
Orthogonal polynomials and functions associated with root systems		Confluent hypergeometric functions, Whittaker functions, ${}_1F_1$	Bessel and Airy functions, cylinder functions, ${}_0F_1$		
Other hypergeometric functions and integrals in several variables		Hypergeometric functions associated with root systems	Other special orthogonal polynomials and functions		
Classical hypergeometric functions, ${}_2F_1$		Elliptic integrals as hypergeometric functions	Spherical harmonics		
Basic hypergeometric functions			Other special functions		
Basic orthogonal polynomials and functions associated with root systems (Macdonald polynomials, etc.)		Basic orthogonal polynomials and functions (Askey-Wilson polynomials, etc.)	Lamé, Mathieu, and spheroidal wave functions		
Connections of basic hypergeometric functions with quantum groups, Chevalley groups, p -adic groups, Hecke algebras, and related topics		Orthogonal polynomials and functions in several variables expressible in terms of basic hypergeometric functions in one variable	Special functions in characteristic p (gamma functions, etc.)		
Bibasic functions and multiple bases		Other basic hypergeometric functions and integrals in several variables	Mittag-Leffler functions and generalizations		
			Elliptic functions and integrals		
			Other functions coming from differential, difference and integral equations		
			Painlevé-type functions		
			Other functions defined by series and integrals		
q -gamma functions, q -beta functions and integrals		Basic hypergeometric functions in one variable, ${}_r\phi_s$	Basic hypergeometric integrals and functions defined by them		
Basic hypergeometric functions associated with root systems		Applications of basic hypergeometric functions			

Special functions

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