

Info

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subsubjects of and functions on $\mathbb{R}^n, T^n, S^n, \mathbb{C}^n$

Current note has 36 direct children and 168 total descendants.

- [stamp](#) stamp
 - [Rf](#) subsubjects of and functions on $\mathbb{R}^n, T^n, S^n, \mathbb{C}^n$
 - [1Hol](#) Holomorphic functions on spaces over \mathbb{C} of dimension 1
 - [approx rat](#) Approximation of holomorphic functions on \mathbb{C} by rational functions
 - [embedding into C3](#) Embedding unit disk D into \mathbb{C}^3
 - [factorization](#) Factorization of holomorphic functions on \mathbb{C}
 - [global](#) Global holomorphic functions
 - [Hol](#) Equivalent descriptions of holomorphic functions
 - [Cauchy](#) Cauchy integral formula for holomorphic functions
 - [d](#) Derivative of holomorphic functions
 - [integral](#) Integral of holomorphic differential forms
 - [power series](#) Convergent power series
 - [mapping](#)
 - [bd derivative](#) Bounding derivative of holomorphic mappings
 - [branch points](#) Branch points and ramification index of holomorphic functions
 - [contains disks](#) Disks in holomorphic images
 - [fibers](#) Fibers of holomorphic mappings
 - [locally poly](#) Non-constant holomorphic functions locally look like w^k and are open mappings
 - [onto disk](#) Biholomorphic mapping onto disk
 - [pole](#) Holomorphic functions on punched disk

- singularities are not isolated Holomorphic function whose singularities are not isolated
- z2 at all rationals A holomorphic map branched over \mathbb{Q}
- Mer Meromorphic functions on the complex plane
- Mer at infinity Holomorphic functions meromorphic at infinity
- modular Modular forms
- recons mer from stalk Reconstructing meromorphic functions from stalks
- reflection Extending holomorphic functions by reflections
- rotation symmetrizer Rotational symmetrization of holomorphic functions
- sheaf Sheaf of holomorphic functions on \mathbb{C}
- space $\mathcal{O}(U)$
 - pre-cpt Pre-compact subsets of $\mathcal{O}(U)$
 - seq Sequences of holomorphic functions
- space C $\mathcal{O}(\mathbb{C})$
- space D $\mathcal{O}(D)$
- space D closed $\mathcal{O}(\overline{D})$
- space D cnt bd $\mathcal{O}(D) \cap \mathcal{C}(\overline{D})$
- space D L2 $\mathcal{O} \cap L^2(D)$
- space H $\mathcal{O}^p(H^2_U)$
- space Lp $\mathcal{O} \cap L^p$
- space S1 $\mathcal{O}(S^1)$
- zeros and singularities Zeros and singularities of holomorphic functions
- An
 - S1 Analytic functions on the circle
- circle packing Circle packing on \mathbb{R}^2
- circle packing to Riemann map Circle packing converges to the Riemann biholomorphism
- Cn conn open bounded Bounded connected open subsets of \mathbb{C}^n
- Cn conn open circular Connected circular open subsets of \mathbb{C}^n
- cont Continuous functions on \mathbb{R}^d
 - 0to1 w bd $\mathcal{C}_0[0, 1]$
 - 1with inf limit is unif Continuous functions on \mathbb{R} with infinite limit are uniformly continuous
 - interm Intermedia value property of continuous functions on intervals
 - space $\mathcal{C}(U, X)$
 - space cpt $\mathcal{C}[0, 1]$
 - dual Dual space of $\mathcal{C}[0, 1]$
 - int to R Riemann integral functional $\int_{[a,b]} : \mathcal{C}[a, b] \rightarrow \mathbb{R}$

- [cube dyadic](#) Dyadic cubes
- [curves](#) Curves
 - [arc](#) Arc length
 - [congruence](#) Congruent curves
 - [curvature](#) Curvature of a curve
 - [reparameterization](#) Reparameterization of a parameterized curve
 - [tangent](#) Tangent of a curve
 - [unit speed](#) Unit speed parameterization of a curve
- [dense](#)
 - [nowhere diffable in C](#) Nowhere differentiable functions are dense in $\mathcal{C}[0, 1]$
 - [on 0to1](#) Basis of functions on $[0, 1], S^1$
- [derivative](#) Differentiable functions
 - [1 at a point](#) Functions $(a, b) \rightarrow \mathbb{R}$ differentiable at a point
 - [bd](#) Comparing a function and its derivative
 - [cont abs](#) Absolutely continuous functions on $[a, b] \leftrightarrow \int_{[a, \cdot]} (L^1[a, b])$
 - [dist](#) Distributional derivatives
 - [H-frac](#) Fractional Sobolev spaces
 - [H1](#) $H^1(U)$
 - [H1 loc](#) H_{loc}^1
 - [H1 loc R2](#) $H_{loc}^1(U)$ for $U \subseteq \mathbb{R}^2$
 - [double circle](#) Double derivative/Laplace operator on the circle
 - [frac](#) Fractional derivative
 - [limit infinite](#) Infinite limit of derivatives
 - [space](#) Space of continuous and continuously differentiable functions on \mathbb{R}
 - [cpt 1](#) $\mathcal{C}^1([a, b], \mathbb{R})$
 - [End d](#) Derivative operator on $\mathcal{C}^1[a, b]$
 - [sup norm](#) $(\mathcal{C}^1([a, b], \mathbb{R}), \|\cdot\|_\infty)$
 - [open with cpt supp k](#) $\mathcal{C}_c^k((a, b), \mathbb{R})$
 - [total](#) Derivative of maps $\mathbb{R}^n \rightarrow \mathbb{R}^m$
 - [zoom](#) Zooming of a map $\mathbb{R}^n \rightarrow \mathbb{R}^m$
- [equations](#)
 - [2](#) Equations for functions on \mathbb{R}^2
 - [2 1 ql](#) Quasi-linear PDEs on \mathbb{R}^2
 - [n 1](#) First order PDEs in \mathbb{R}^n
- [forms](#) Differential forms on \mathbb{R}^n
 - [cohomology](#) de Rham cohomology in \mathbb{R}^n
- [Fourier-Wigner](#) Fourier-Wigner transform
- [Fourier](#)

- [L2 bdint](#) Fourier transform on $L^2(-A, A) \leq L^2(\mathbb{R})$
- [L2 Rpos to Hardy2 upper 1](#) $\widehat{} : L^2(0, \infty) \cong_{\text{Hilb}} \mathcal{O}^2(H_U^2)$
- [Rn](#) Fourier transform on \mathbb{R}^n
- [S1](#) Fourier transform on S^1 , Fourier series on $[0, 1]$
- [S1 abs](#) Functions on S^1 with absolutely converging Fourier series, $\check{I}^1(S^1)$
- [S1 dist](#) Fourier transform of distributions on S^1
- [S1 L1toC0](#) $\widehat{} : L^1[0, 1] \rightarrow \mathcal{C}_0(\mathbb{Z}, \mathbb{C})$
- [S1 L2toL2](#) $\widehat{} : L^2[0, 1] \cong_{\text{Hilb}} l^2(\mathbb{Z}, \mathbb{C})$
- [subsets](#) Fourier transform of measurable subsets
- [unsharp](#) Unsharpness principles
- [harmonic composed conformal](#) Harmonic functions composed with conformal maps
- [Hilbert](#) Hilbert transform
- [hol harmonic disk-circle](#) Fourier-Cauchy-Poisson correspondence of holomorphic and harmonic functions on the unit disk and their boundary values
- [Hol sets](#) Holomorphic subsets of \mathbb{C}^n
- [hypersurf 2n reg](#) Regular hypersurfaces in \mathbb{R}^{2n}
- [hypersurf or](#) Orientable hypersurfaces in \mathbb{R}^n
- [int](#)
 - [by parts](#) Integration by parts
 - [Laplace method](#) Laplace's method for approximating integral of e^{Mf} for large M
 - [open C1bd](#) Integral on bounded open subsets of \mathbb{R}^n with \mathcal{C}^1 boundary
 - [R](#) Riemann-Darboux and Riemann-Stieltjes integrals
- [KG](#)

$$\partial_t^2 + \sum_{i=1}^n v_i^2 \partial_{x_i}^2 + m^2$$

- [Laplace](#) Laplace operator on \mathbb{R}^n
 - [upper half](#) Laplace operator on (flat) upper half space
- [linear](#)
 - [operator norm](#) Operator norm of linear maps between \mathbb{R}^n
- [Lmeas](#) Lebesgue measurable subsets of and functions on \mathbb{R}^n, T^n, S^n
 - [BMO](#) Functions with uniformly bounded mean oscillations on cubes
 - [decom bd](#) Chebyshev's inequality
 - [decom CZ](#) Calderon-Zygmund decomposition
 - [density](#) Lebesgue density of measurable sets
 - [DMO](#) Functions with uniformly bounded mean oscillations on dyadic cubes
 - [End int](#) Volterra operator $\int_{[0, -]} : L_{\text{loc}}^1[0, 1] \rightarrow \mathcal{C}[0, 1]$

- p to p Volterra operator $\int_{[0,-]} : L^p[a, b] \rightarrow L^p[a, b]$
- f Measurable functions on \mathbb{R}^n
- f quant (ϵ, n) -measurable function
- int Integrability and integral of measurable functions on \mathbb{R}^n
- int HL Hardy-Littlewood maximal functions of $L^1_{\text{loc}}(\mathbb{R}^n)$
- int mean Lebesgue averaging and differentiation
- int monotone Integrals of a monotonically converging sequence of functions
- int undergraph Lebesgue integral from measure of undergraph
- Lorentz $L^{p,q}$
- unit mass $E([0, 1]) = E(0, 1), E([- \pi, \pi]) = E(S^1)$
- Lmeas bd of open Lebesgue measure of boundary of open sets in \mathbb{R}^n
- mapping
 - balls Mapping balls
 - inverse Inverse of differentiable maps
 - mean value Mean value property of functions
 - iterative Taylor's theorem
 - seqf Sequence of functions on \mathbb{R}^d
- met density Metric density of subsets of \mathbb{R}^n
- Mobius n-sphere Mobius endomorphisms
- monotone Monotone functions on \mathbb{R}
 - asympt Asymptotics of monotonically increasing functions $[0, \infty] \rightarrow [0, \infty]$
- periodic int Cauchy Cauchy integral of periodic functions
- poly int Polygons with integer vertices
- quasiconformal
 - 2 Quasiconformal maps on \mathbb{C}
 - n Quasiconformal maps on S^n
- R 2 open smooth End Open smooth maps $U \subseteq \mathbb{R}^2 \rightarrow \mathbb{C}$
- R n discrete subg Discrete subgroups of \mathbb{R}^n
 - power sum Power series sum of a discrete subgroup of \mathbb{R}^2
- R n discrete subg cocpt Discrete cocompact subgroups of \mathbb{R}^n , flat tori
- R1
 - discont types Types of discontinuities of functions on \mathbb{R}
 - extremum Extremum of functions $\mathbb{R} \rightarrow \mathbb{R}$
 - fixed pts Fixed points of functions $U \subseteq \mathbb{R} \rightarrow U$
 - limit of fractions $\lim_{x \rightarrow a} \frac{f(x)}{g(x)}$ of functions $f, g : U \subseteq \mathbb{R} \rightarrow \mathbb{R}$
 - Var and sequence of functions Total variation and sequence of continuous functions

- [RC ramified germs](#) Ramified germs of smooth and holomorphic functions
 - [Hol modality 1](#) Simple singularities of holomorphic functions
- [Rn open](#) Open subsets of \mathbb{R}^n
- [Rn open Riem](#) Open subsets of \mathbb{R}^n equipped with the flat metric
- [smooth quasi-analytic](#) Quasi-analytic smooth functions on \mathbb{R}
- [star shaped](#) Star-shaped subsets of \mathbb{R}^n
- [Vec](#) ODEs in $\mathbb{R}^n \leftrightarrow$ Vector fields in \mathbb{R}^n
 - [cons](#) Constant of a flow in \mathbb{R}^n
 - [Euler method](#) Euler's iterative solution method for first order ODEs
 - [existence](#) Existence of integral curves of vector fields in \mathbb{R}^n
 - [fixed](#) Fixed points
 - [flows](#) Flow of a vector field in \mathbb{R}^n
 - [from graphs](#) Graph \rightarrow polynomial ODE
 - [grad](#) Gradient flows on \mathbb{R}^n
 - [Hamiltonian](#) Hamiltonian vector fields in \mathbb{R}^{2n} with standard symplectic form
 - [probability distribution](#) Probability distribution of flow
 - [volume](#) Volume change by flows on \mathbb{R}^n
- [wave](#)

$$\partial_t^2 + \sum_{i=1}^n v_i^2 \partial_{x_i}^2$$

And it has 14 siblings.

- [stamp](#) stamp
 - [Alg](#) k -algebraic subsets of A^n and P^n
 - [field Q ext finite](#) Algebraic number fields
 - [GL](#) GL
 - [Hom F2 G](#) $\text{HomGrp}(F_2, G)$
 - [Langlands](#) Langlands
 - [loci](#) Loci on $\text{FinGenC}^\infty \text{exRing}$
 - [poly](#) Polynomials, finitely generated algebras, affine varieties
 - [Rf](#) subobjects of and functions on $\mathbb{R}^n, T^n, S^n, \mathbb{C}^n$
 - [RFH](#) Round, flat and hyperbolic spaces
 - [rid](#) Rigidity and deformations
 - [Rs](#) \mathbb{R} -spaces and \mathbb{C} -spaces
 - [semisimple](#) subobjects of and functions on semi-simple (and reductive) Lie groups
 - [simplset](#) Simplicial sets

- smooth sets Smooth sets