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hilbert basis e_i is a maximal orthonormal subset of l^2 or any hilbert space one sees that every hilbert space is isometrically isomorphic to l^2 the same as above e_i is a hilbert space of type l^2
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[pontryagin duality wikipedia](#) Apr 12 2021 in mathematics
pontryagin duality is a duality between locally compact abelian groups that allows generalizing fourier transform to all such groups which include the circle group the multiplicative group of complex numbers of modulus one the finite abelian groups with the discrete topology and the additive group of the integers also with the discrete topology the

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holographic principle wikipedia Jan 10 2021 the holographic principle is an axiom in string theories and a supposed property of quantum gravity that states that the description of a volume of space can be thought of as encoded on a lower dimensional boundary to the region such as a light like boundary like a gravitational horizon first proposed by Gerard t Hooft it was given a precise string theory interpretation by

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dynamical system wikipedia Mar 24 2022 a dynamical system may be defined formally as a measure preserving transformation of a measure space the triplet (T, X, μ, Φ) here T is a monoid usually the non negative integers X is a set and μ is a probability space meaning that Σ is a sigma algebra on X and μ is a finite measure on X Σ a map $\Phi: X \rightarrow X$ is said to be Σ measurable if and only if

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two functions f and g that produces a third function that expresses how the shape of one is modified by the other the term convolution refers to both the result function and to the process of computing it it is defined as the integral of the product of the two functions after one is

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max planck institute for mathematics Dec 21 2021 we strongly agree with the statements of the alliance of science organisations in germany the european mathematical society and the president of the max planck society we are in strong solidarity with our mathematical friends and colleagues in ukraine as a practical help our guest program can offer a medium term perspective for ukrainian scientists

representation theory wikipedia Oct 07 2020 representation theory is a branch of mathematics that studies abstract algebraic structures by representing their elements as linear transformations of vector spaces and studies modules over these

abstract algebraic structures in essence a representation makes an abstract algebraic object more concrete by describing its elements by matrices and their algebraic operations for