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arXiv:2012.06938v1 [math.HO] 13 Dec 2020 ... then touches upon Newton's approach to differential equations. Then the development of the various methods for solving the first order differential equations and the second order linear differential equations are discussed.

Differential Equations: A Historical Refresher arXiv:2012 ...

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\hat{S}_i ; $H_s = t \sum_{\langle ij \rangle} c_i^\dagger c_j + \sum_i U_i c_i^\dagger c_i (3) + U_s \sum_i c_i^\dagger c_i \hat{n}_s$
 \hat{S}_i : In Eqs. (1-3), $c_i^\dagger (d_i)$ creates an s- (d-) electron at site i with spin projection \uparrow , and \hat{n}_a is the spin density operator for orbital a at site i . The orbital energy is given by ϵ_i , t is the hopping ampli-

arXiv:2010.16125v1 [cond-mat.mes-hall] 30 Oct 2020

arXiv:2012.06097v1 [quant-ph] 11 Dec 2020. 2 FIG. 1. Schematic of the relationship between the ... by a system of ordinary differential equations (ODEs) $\dot{x} = V(x)$ on $X = \mathbb{R}^d$, a classical way of performing simulation is to construct a nite-

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difference approximation $t^{\wedge} : X!X$ of the dynamical

arXiv:2012.06097v1 [quant-ph] 11 Dec 2020

We study vortex sheet solutions of Euler equation, corresponding tangent discontinuity ... $S D \sim v d \sim r$. This means that ... arXiv:2011.09030v1 [physics.flu-dyn] 18 Nov 2020. 2 scaling laws in Turbulent flow. Let us define here the basic equations.

arXiv:2011.09030v1 [physics.flu-dyn] 18 Nov 2020

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The starting point is Dyson's equations, a closed set of integral equations which relate various physical amplitudes involving graviton propagators, vertex functions and proper self-energies. Such equations are in general difficult to solve, and as a result not very useful in practice, but nevertheless provide a basis for subsequent approximations.

[2010.10500] Dyson's Equations for Quantum ... - arXiv.org

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Pub Date: August 2016 arXiv: arXiv:1608.03906 Bibcode: 2016arXiv160803906E

Keywords: Mathematics - Classical Analysis and ODEs; 39B32;

Solutions and stability of a variant of Van Vleck's and d ...

adshep[at]cfa.harvard.edu The ADS is operated by the Smithsonian Astrophysical Observatory under NASA Cooperative Agreement NNX16AC86A

Large singular solutions for conformal Q -curvature ...

$d(\sim s, \Theta) = \sim \Phi W^{-1} d(\sim s, \Theta), V^{-1} d(\sim s, \Theta) (12) = 1/2 V^{-1} d(\sim s, \Theta) - W^{-1} 2 d(\sim s, \Theta) 2W^{-1} d(\sim s, \Theta) - 1$. In order to recover standard linear sparse coding, we can complete the definition of $\sim \eta \sim d$ as follows. Using parameters $\Theta = (\sigma^2, W)$ with $\sigma^2 \in \mathbb{R}^+$!

Machine LearningLab, Department of Medical Physics ... - arXiv

Learning to Switch Between Machines and Humans Vahid Balazadeh Meresht¹, Abir De², Adish Singla³, and Manuel Gomez-Rodriguez³ ¹Sharif University of Technology, vbalazadehmeresht@c

export.arxiv.org

In this case, from S and T , one can again, in a natural manner, construct a Lorentzian conformal metric on the six dimensional space $(z, z_s, z_t, z_{st}, s, t)$. When the S and T satisfy equations analogous to $U[F]=0$, namely equations of the form $M[S, T]=0$, the 6-space then possesses a pair of conformal Killing fields, $\xi_i = \text{partial}$

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with respect to s and ...

Differential Geometry from Differential Equations ...

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Abstract. This work addresses some relevant characteristics of associative algebras in low dimensions. Especially, given 1 and 2 dimensional associative algebras, we explicitly solve associative Yang-Baxter equations and use skew-symmetric solutions to perform double constructions of Frobenius algebras.

Solutions of associative Yang-Baxter equation and $\mathcal{S}D$...

Quantum sphere is introduced as a quotient of the so-called Reflection Equation Algebra. This enables us to construct some line bundles on it by means of the Cayley-Hamilton identity whose a quantum version was discovered in [PS], [GPS]. A new way to introduce some elements of "braided geometry" on the quantum sphere is discussed.

Quantum Sphere via Reflection Equation ... - arxiv-vanity.com

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In theoretical physics, quantum field theory (QFT) is a theoretical framework that combines classical field theory, special relativity and quantum mechanics, but not general relativity's description of gravity. QFT is used in particle physics to construct physical models of subatomic particles and in condensed matter physics to construct models of quasiparticles.

Quantum field theory - Wikipedia

The Alcubierre drive, Alcubierre warp drive, or Alcubierre metric (referring to metric tensor) is a speculative idea based on a solution of Einstein's field equations in general relativity as proposed by Mexican theoretical physicist Miguel Alcubierre, by which a spacecraft could achieve apparent faster-than-light travel if a configurable energy-density field lower than that of vacuum (that is ...

Alcubierre drive - Wikipedia

Abstract: Onsager and Machlup proposed a second order variational-principle in order to include inertial effects into the Langevin-equation, giving a Lagrangian with second order derivatives in time. This but violates Ostrogradsky's theorem, which proves that Lagrangians with higher than first order derivatives are meaningless. As a consequence, inertial effects cannot be included in a ...

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