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262 J.C. Sprott, B. Munmuangsaen / Chaos, Solitons And Fractals 113 (2018) 261–262 Fig. 1. Transient Chaos In The Lorenz System For  $(a, R, B) = (4, 29, 2)$ . Fig. 2. Geometric Mean Duration Of The Chaotic Transient As A Function Of  $R$ . Fig. 3. Basins Of Attraction In The  $X = Y$  Plane For The Lorenz System With  $(a, R, B) = (4, 29, 2)$ . Feb 11th, 2024

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Note That The KdV Is A Nonlinear Partial Differential Equation (PDE, For Short) Due To The Presence Of The  $u u_x$  Term, Where We Use A Subscript To Denote The Partial Derivative. The  $u u_{xx}$  Term Makes It Dispersive, I.e. In General An Initial Wave  $U(x;0)$  Will Broaden In Space As Time Progresses. In Addition To Its Solutions Showing Behavior Of ... Mar 11th, 2024

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Three-dimensional Topological Solitons In PT -symmetric Optical Lattices YAROSLAV V. K ARTASHOV,1,2,\*CHAO HANG,3 GUOXIANG HUANG,3 AND LLUIS TORNER1,4 IICFO-Institut De Ciencies Fotoniques, The Barcelona Institute Of Science And Technology, 08860 Castelldefels (Barcelona), Spain 2Institute Of Spectroscopy, Russian Academy Of Sciences, Troitsk, Moscow Region 142190, Russia Jan 10th, 2024

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394 PRADIP MAJHI AND DEBABRATA KAR For All Vector fields X,Yon M. LP-Sasakian Manifolds Have Been Studied By Several

Authors Such As [12, 24, 27] And Many Others. Notice That The Ricci Tensor Sand The Scalar Curvature Rare Defined By  $S(X,Y) = \sum_{I=1}^n \text{lg}(R(e I,X)Y,e I)$  And  $R = \sum_{I=1}^n \text{IS}(e I,e I)$ , Where  $\{e I\}$  is An Orthonormal Basis Such That  $E 1 \dots$  Apr 9th, 2024

### Introduction To Solitons

AAAANNNN ===== Gggg 1111-----ccccooooossssθθθθ Rrrrssssiiiiinnnθθθθ ^^^^eeee AAAASSSS =====-----gggg  
1111++++ccccooooossssθθθθ Rrrrssssiiiiinnnθθθθ ^^^^eeee Regular Static Configuration Gauge Group SU(2) Magnetic Charge  
Is The Topological Number :  $Qg=n/2$  The Monopole Is Very Heavy ,  $M \sim m_v / e$  BBBB =====ggggrrr ... Jan 1th, 2024

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Ow. Shrinkers Are Rare! AC Steady Solitons A New Feature (compared To Ricci/K Ahler-Ricci Ow). Theorem 1-parameter  
Family Of Complete Expanders On  $2 2 + S 4$  And On  $+CP$  . Models For How Laplacian Mar 12th, 2024

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Waveguides Is A Setting That Represents A Convenient Laboratory For Experimental Observations And Theoretical  
Predictions. Such System (see Fig. 1) Is Typically Composed Of Three May 10th, 2024

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To The North Pole Orientation) And Separates Two Subspaces: (i)single-loop(0 1)preimagesofpointsatθ θ C In The Form Of  
Two Separate Unlinked Loops (02 1). Although There Are Different Geometric Configurations Of Closed Loops,depending OnU  
... Jan 7th, 2024

### Solitons In The Korteweg-de Vries Equation (KdV Equation)

Max Sech  $2B X$  Max  $2 Hx - 2 X$  Max TL F, So The Deeper The Trough The Faster The Soliton Moves And The Narrower It Is. We  
Verfiy That This Does Satisfy The KdV Equation:  $\ln[7]:= \text{Clear}@x_{\text{max}}D$   $\ln[8]:= U_{\text{exact}}@x_{\text{max}}, T_D = -x_{\text{max}}$   
 $\text{Sech}@Sqrt@x_{\text{max}}^2D Hx -$  Mar 2th, 2024

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