

Departmental List of Publications for the Calendar Year 2018

Zeng, Yanni Asymptotic behavior of solutions to general hyperbolic-parabolic systems of balance laws in multi-space dimensions. *Pure Appl. Math. Q.* 14 (2018), no. 1, 161–192. (Reviewer: Stefanie Sonner) 35K45 (35B40 35K59 76Nxx)

Rugamba, Jean; Zeng, Yanni Green's function of the linearized logarithmic Keller-Segel-Fisher/KPP system. *Math. Comput. Appl.* 23 (2018), no. 4, Paper No. 56, 12 pp. 92D25 (35A08 35K45)

Blokh, Alexander; Oversteegen, Lex; Timorin, Vladlen Perfect subspaces of quadratic laminations. *Sci. China Math.* 61 (2018), no. 12, 2121–2138. (Reviewer: Kevin M. Pilgrim) 37F20 (37F10 37F50)

Abdul-Rahman, Houssam; Sims, Robert; Stolz, Günter Correlations in disordered quantum harmonic oscillator systems: the effects of excitations and quantum quenches. *Mathematical problems in quantum physics*, 31–47, Contemp. Math., 717, Amer. Math. Soc., [Providence], RI, [2018], ©2018. 81P40

Fischbacher, Christoph The nonproper dissipative extensions of a dual pair. *Trans. Amer. Math. Soc.* 370 (2018), no. 12, 8895–8920. (Reviewer: Wolfgang Rues) 47B44 (47A20 47E05)

Blokh, Alexander; Oversteegen, Lex; Ptacek, Ross; Timorin, Vladlen Complementary components to the cubic principal hyperbolic domain. *Proc. Amer. Math. Soc.* 146 (2018), no. 11, 4649–4660. (Reviewer: Haifeng Chu) 37F45 (37F10 37F20 37F50)

Elgart, Alexander; Klein, Abel; Stolz, Günter Manifestations of dynamical localization in the disordered XXZ spin chain. *Comm. Math. Phys.* 361 (2018), no. 3, 1083–1113. (Reviewer: Aernout C. D. van Enter) 82B10 (47B80 60H25 81Q10 82B20 82B44)

Starr, Shannon; Walters, Meg Phase uniqueness for the Mallows measure on permutations. *J. Math. Phys.* 59 (2018), no. 6, 063301, 28 pp. 60B15 (60F10 60K35 81R12 82B26)

Fischbacher, C.; Stolz, G. Droplet states in quantum XXZ spin systems on general graphs. *J. Math. Phys.* 59 (2018), no. 5, 051901, 28 pp. 81Q80 (05C90)

Elgart, Alexander; Klein, Abel; Stolz, Günter Many-body localization in the droplet spectrum of the random XXZ quantum spin chain. *J. Funct. Anal.* 275 (2018), no. 1, 211–258. 82B44 (47B80 60H25 81Q10 82C44)

Wang, Xiaofei; Navasca, Carmeliza; Kindermann, Stefan On accelerating the regularized alternating least-squares algorithm for tensors. *Electron. Trans. Numer. Anal.* 48 (2018), 1–14. (Reviewer: A. Bultheel) 65F10 (15A69)

Wang, Xiaofei; Navasca, Carmeliza Low-rank approximation of tensors via sparse optimization. *Numer. Linear Algebra Appl.* 25 (2018), no. 2, e2136, 17 pp. (Reviewer: Yousef Zamani) 65F99 (15A69 65K10 90C06 90C25 94A12)

Fathallah-Shaykh, Hassan M.; Freiji, Abraham Global asymptotic stability in a model of networks. *Dyn. Syst.* 33 (2018), no. 1, 159–183. (Reviewer: Clark D. Jeffries) 34D23 (37N25 92C42)

Elgart, A.; Klein, A.; Stolz, G. Droplet localization in the random XXZ model and its manifestations. *J. Phys. A* 51 (2018), no. 1, 01LT02, 9 pp. 82B28

Zeng, Yanni Lp decay for general hyperbolic-parabolic systems of balance laws. *Discrete Contin. Dyn. Syst.* 38 (2018), no. 1, 363–396. 35M31 (35B40 35B45 35Q35)