

## **2018-20:**

**S. Ahn** & L. L. Rubchinsky, Temporal patterns of dispersal-induced synchronization in population dynamics, *Journal of Theoretical Biology*, 490(2020):110159.

**F. C. Benson** & G. L. Ratcliff, A family of finite Gelfand Pairs associated with wreath products, *Colloquium Mathematicum*, 152:1(2018), 65–78.

**C. A. Carolan** & N. E. Hudson, Inherent fiber tension propels mechanisms of network clearance during fibrinolysis, *Acta Biomaterialia*, 107(2020), 164–177.

**J. Choi**, Valuation of GMWB under stochastic volatility, *Journal of Interdisciplinary Mathematics*, 21(2018), 539-551.

A. Dor-On, & E. **Katsoulis**, Tensor algebras of product systems and their  $C^*$ -envelopes, *Journal of Functional Analysis*, 278(2020), 108416.

**G. Fucci**, A. Flachi, M. Nitta, S. Takada, & R. Yoshii, Ground state modulations in the  $CP^{N-1}$  model. *Physical Review D*, 100(2019), 085006.

**G. Fucci**, Vacuum instability in Kaluza-Klein manifolds, *Journal of Physics A: Mathematical and Theoretical*, 51(2018), 215202.

**G. Fucci**, Asymptotic Expansion of the Heat Kernel Trace of Laplacians with polynomial potentials, *Letters in Mathematical Physics*, 108(2018), 2453.

**J. H. Hattingh** & E. J. Joubert, Some multicolor bipartite Ramsey numbers involving cycles and a small number of colors, *Discrete Mathematics*, 341(2018), 1325–1330.

**J. H. Hattingh** & E. J. Joubert (book chapter), Restrained and Total Restrained Domination in Graphs. In *Domination in Graphs: Major Parameters*. Editors: T. Haynes, S.T. Hedetniemi and M.A. Henning. Springer, 2020.

**C. Jantzen**, Jacquet modules and irreducibility of induced representations for classical  $p$ -adic groups, *Manuscripta Mathematica*, 156(2018), 23-55.

**C. Jantzen**, Duality for classical  $p$ -adic groups: the half-integral case, *Representation Theory*. 22(2018), 160-201.

**E. Katsoulis** & C. Ramsey, Crossed products of operator algebras: applications of Takai duality, *Journal of Functional Analysis*, 275(2018), 1173–1207.

**E. Katsoulis** & C. Ramsey, The non-selfadjoint approach to the Hao-Ng isomorphism, *International Mathematics Research Notices* (2019), <https://doi.org/10.1093/imrn/rnz271>

**E. Katsoulis** & C. Ramsey, Crossed Products of Operator Algebras, *Memoirs of the American Mathematical Society*, 258(2019), 85 pages.

T. A. Kroll, A. A. Trindade, A. Asikis, M. Lau, C. Saenz, M. Head, **C. Prematilake**, C. Perry, The DUT task: A novel experimental paradigm to investigate the variability of eye movements in whole-text reading for meaning. *Journal of Research Design and Statistics in Linguistics and Communications Science*, (2018), <http://dx.doi.org/10.1558/jrds.3560>.

E. A. Malaia, **S. Ahn**, L. L. Rubchinsky, Dysregulation of temporal dynamics of synchronous neural activity in adolescents on autism spectrum, *Autism Research*, 13:1(2020), 24-31.

A. M. McCane, **S. Ahn, S.**, L. L. Rubchinsky, S. S. Janetsian-Fritz, D. N. Linsenhardt, C. L. Czachowski, & C. C. Lapish, COMT Inhibition Alters Cue-Evoked Oscillatory Dynamics during Alcohol Drinking in the Rat. *eNeuro*, 5:5(2018), 1-15.

**D. W. Pravica**, & M. Bier, Limits on quantum coherent domains in liquid water, *Acta Physica Polonica B*, 49:9(2018), 1717–1739.

**D. W. Pravica**, N. **Randriampiry**, & M. J. **Spurr**, Solutions of a Class of Multiplicatively Advanced Differential Equations, *Comptes Rendus Mathematique*, 356:7(2018), 776–817.

**G. L. Ratcliff**, H. Friedlander, W. Grodzicki, W. Johnson, A. Romanov, B. Strasser, & B. Wessel, An orbit model for the spectra of nilpotent Gelfand pairs, *Transformation Groups*, 25(2020), 859-886.

**A. Shlapentokh**, Divisibility of Order and First Order Definability and Decidability in Infinite Algebraic Extensions of Rational Numbers, *Israel Journal of Mathematics*, 226:2(2018), 579–633.