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Publications

Journals

- A. E. Botha, M. Ansariara, S. Emadi, and M. R. Kolahchi, "Chimera patterns of synchrony in a frustrated array of Hebb synapses", *Front. Comput. Neurosci.*, Vol. 16, 2022
- Yu. M. Shukrinov, I. R. Rahmonov, A. Janalizadeh, and M. R. Kolahchi, "Anomalous Gilbert damping and Duffing features of the superconductor-ferromagnet-superconductor ϕ 0 Josephson junction", *Phys. Rev. B* , Vol. 104, 2021
- M. Ansariara, S. Emadi, V. Adami, A. E. Botha, M. R. Kolahchi , "Signs of memory in a plastic frustrated Kuramoto model of neurons", *Nonlinear Dynamics* , Vol. 100, 2020
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- A. Valizadeh, M. R. Kolahchi, and J. P. Straley, "Single phase-slip junction site can synchronize a parallel superconducting array of linearly coupled Josephson junctions", *Physical Review B* , Vol. 82, 2010
- A Valizadeh, Kh Jahanbani, MR Kolahchi, "Dynamics of a Bose-



Einstein condensate in a horizontally vibrating shallow optical lattice", *Physical Review A*, Vol. 81, 2010

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