

Publication List

- [1] Bidirectional motion of filaments: Role of motor proteins and passive cross linkers, Subhadip Ghosh, V N S Pradeep, **Sudipto Muhuri**, Ignacio Pagonabarraga and Debasish Chaudhuri.
Soft Matter **13**, 7129 (2017).

- [2] Driven transport on open filaments with interfilament switching processes, Subhadip Ghosh, Ignacio Pagonabarraga, and **Sudipto Muhuri**,
Phys. Rev. E **95**, 022417 (2017).

- [3] Catch bond mechanism in Dynein motor driven collective transport, Anil Nair, Sameep Chandel, Mithun K Mitra, **Sudipto Muhuri** and Abhishek Chaudhuri.
Phys. Rev. E **94**, 032403 (2016)

- [4] Mechanical stability of bipolar spindle assembly, Paolo Margaretti and **Sudipto Muhuri**.
EPL **115**, 28001 (2016)

- [5] Collective transport of weakly interacting molecular motors with Langmuir kinetics, Sameep Chandel, Abhishek Chaudhuri and **Sudipto Muhuri**.
EPL **110**, 18002 (2015).

- [6] Jamming transition in a driven lattice gas, **Sudipto Muhuri**.
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- [7] Scale-invariant density profiles of a dynamically extending TASEP, **Sudipto Muhuri**.
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- [8] Intrinsic oscillations of polymerizing antiparallel microtubules in a motor bath, **Sudipto Muhuri**, Ignacio Pagonabarraga and Jaume Casademunt.
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- [9] Phase segregation and transport in a two species multi-lane system, **Sudipto Muhuri** and Ignacio Pagonabarraga.
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- [10] Bidirectional transport in a multispecies TASEP model, **Sudipto Muhuri**, Lenin Shagolsem and Madan Rao.
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- [11] Lattice gas model for active vesicle transport by molecular motors with opposite polarities, **Sudipto Muhuri**, Ignacio Pagonabarraga.
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- [12] ‘Sequence’ dependent elasticity and local stiffness of a random heteropolymer, **Sudipto Muhuri** and Madan Rao.
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- [13] Collective vesicle transport on biofilaments carried by competing motors, **Sudipto Muhuri**, Ignacio Pagonabarraga.
EPL 84, 58009 (2008).
- [14] Shear flow induced isotropic to nematic transition in a suspension of active filaments, **Sudipto Muhuri**, Madan Rao and Sriram Ramaswamy.
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