Accepted Manuscript

Collective motion of groups of self-propelled particles following interacting leaders

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PII: S0378-4371(17)30277-7

DOI: http://dx.doi.org/10.1016/j.physa.2017.03.025

Reference: PHYSA 18091

To appear in: Physica A

Received date: 10 September 2016 Revised date: 19 December 2016

Please cite this article as: B. Ferdinandy, et al., Collective motion of groups of self-propelled particles following interacting leaders, *Physica A* (2017), http://dx.doi.org/10.1016/j.physa.2017.03.025

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Highlights:

- Collective motion model of SPP-s in two-level hierarchy is investigated.
- Model reproduces key features of wild horse herd movement on open ground.
- Spatial-based interactions produce different group size distribution than observed.
- More complex social topology, than spatial must be involved in group formation.

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