

## **Webinar**

### **Active Matter: fundamentals, non-mutual interactions and anomalous hydrodynamics**

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I will start by introducing active matter and will discuss its nonequilibrium nature and the importance of the time-reversal signature of dynamical variables involved. Then I will talk about the role and consequence of non-mutual interactions in active matter and how this helps in bypassing the Mermin-Wagner theorem. And finally, I will talk about the anomalous behaviour of hydrodynamics in an active suspension which leads to superdiffusion and condensation in active systems without attraction.

***Friday, Feb 12<sup>th</sup> 2021***

***11:00 AM***