

## **Seminar**

### **Glass transition in dense systems of self-propelled particles**

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We have studied, using molecular dynamics and Brownian dynamics simulations, the effects of activity in two model glass forming liquids. The introduction of activity dramatically reduces the glass transition temperature. Some of the effects of activity on the dynamics in the liquid state are determined by an "active temperature" that adds to the bath temperature. However, several properties of the "active" supercooled liquid are found to be qualitatively different from those of its "thermal" counterpart.

This work was carried out in collaboration with R. Mandal, P. J. Bhuyan, M. Rao and P. Chaudhuri.

***Saturday, Dec 10<sup>th</sup> 2016***

***4:00 PM (Tea/Coffee at 3:45 PM)***

***Seminar Hall, TCIS***