

## **Seminar**

**The sandpile revisited: computer assisted determination of constitutive relations and the breaking of scaling**

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We revisit the problem of the stress distribution in a frictional sandpile with both normal and tangential (frictional) inter-granular forces, under gravity, equipped with a new numerical method of generating such assemblies. We compare the results with the predictions of a theory based on continuum equilibrium mechanics and find that the constitutive relations must be modified; moreover for smaller friction coefficients and smaller piles, the scaling assumptions break down in the bulk of the sandpile due to the presence of length scales that are carefully identified.

***Friday, Nov 2<sup>nd</sup> 2018***

***11:30 AM (Tea/Coffee at 11:00 AM)***

***Auditorium, TIFR-H***