

## **Seminar**

### **Fatigue and creep failure of amorphous solids**

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The mechanical failure of amorphous solids due to external loading has been a long-standing problem in condensed matter physics and engineering. This problem includes two connected but nevertheless different issues. The first is how it occurs, and the second is how long it takes. In this talk, I will discuss the failure of the amorphous solids due to two different types of external forcing. Firstly, I will discuss "fatigue failure", where the mechanical collapse of the material occurs due to repetitive external loading. Then I will talk about the failure of an amorphous strip under a constant tensile force known as "creep failure".

***Thursday, Dec 22<sup>nd</sup> 2022***

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

***Auditorium, TIFR-H***