

# **Seminar**

## **Parametric Oscillation in chemical systems**

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A nonlinear chemical system in a stable steady state when subjected to a time-periodic sinusoidal forcing of a suitable scaling parameter at a frequency twice the oscillation frequency and strength of perturbation exceeds a critical threshold; the system undergoes sustained Rayleigh-type periodic oscillations. We discuss a general scheme with an application to chloride-iodide-malonic acid system. The theory is extended to reaction-diffusion systems to realize spatio-temporal profiles in the form of standing clusters observed in experiments.

***Thursday, Oct 12<sup>th</sup> 2017***

***04:00 PM (Tea/Coffee at 03.45 PM)***

***Auditorium, TIFR-H (FReT-B)***