

How the Periodic Table Got Built up (The Restless Universe)



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The Universe began only with hydrogen and helium. It is cosmic explosions which build up the periodic table! Astronomers have now identified several classes of cosmic explosions of which supernovae constitute the largest group. The Palomar Transient Factory and its successor, the Zwicky Transient Factory (ZTF) use gigantic CCD cameras and sophisticated software system to systematically find "blips and booms in the middle of the night". The speaker will talk about the great returns and surprises from this project: super-luminous supernovae, new classes of transients, new light on progenitors of supernovae, detection of gamma-ray bursts by purely optical techniques and troves of pulsating stars and binary stars.

Talk is open to all.

Non TIFR members are requested to carry valid photo ID card.

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