

## **Colloquium**

# **Intriguing formation pathways of metal halide perovskites and their impact**

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Metal halide perovskites-based optoelectronic devices have shown remarkable progress in the last several years. Single crystals are often seen as the model for understanding the fundamental properties and assessing the limits and possibilities of these materials.

In this colloquium, I will discuss the reasons behind the observed rapid crystallization in metal halide perovskites. I will show the applications of the newly found information towards the preparation of high-quality thin films, single crystals, and solar cells. Also, I will discuss the role of interfacial chemistry in the development of semi-transparent and flexible perovskite-based solar cells.

***Monday, Nov 5<sup>th</sup> 2018***

***4:00 PM (Tea/Coffee at 3:30 PM)***

***Seminar Hall, TIFR-H***