

**The Academy of Sciences, Chennai  
Announces Saturday lecture series on  
Theory and Program on Dynamical Mean Field Theory (DMFT)**

The lectures will be delivered by  
**Prof.N.S.Vidhyadhiraja**  
Jawaharlal Nehru Center for Advanced Sciences & Research

**Program:**

<b>Date</b>	<b>Title</b>
05.02.2022	(1) Introduction to strongly correlated electronic systems
12.02.2022	(2) Second quantization
19.02.2022	(3) Green's functions
26.02.2022	(4) Dynamical mean-field theory (DMFT) and quantum cluster theories
05.03.2022	(5) Interfacing DMFT with density functional theory

It will be attended by those who have are wellversed with theory and practical Aspects of DFT.

All lectures at **2.00P.M**

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**Note on the International Conference conducted by The Academy between Oct 28-30<sup>th</sup>, 2021.**

The title of the conference was CONFERENCE ON CONDENSED MATTER. The lectures were focused on DFT, Band structure methodologies, Strongly correlated systems, DMFT, High Tc Materials, High Pressure and DFT calculations applied to Biomaterials.

It had 27 Indian speakers drawn from IISc, IMSC, S.N BOSE INSTITUTE , JNCASR, BARC, IGCAR, CECRI, IISER , VIT, ANNA UNIVERSITY .THE FIVE FOREIGN SPEAKERS WERE ALL DIRECTORES OF SEVERAL RESEARCH INSTITUES AND UNIVERSITIES FROM AUSTRIA, USA, UK AND GERMANY

It was attended by 180 participants all over from the country.

At the end of the conference, it was decided to hold a course of lectures on DMFT to remove the defienicies in DFT.

This led to the conduct of a series of lectures on DFT+DMFT and the lectures will be given by Prof Vidhyadhiraja of JNCASR, which may be followed by a few more lectures from IMSC.