

## **Seminar**

# **Towards Widespread Use of Dynamic Nuclear Polarization NMR**

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Dynamic nuclear Polarization (DNP) has revolutionised NMR spectroscopy by improving NMR sensitivity by orders of magnitude. In this talk, state-of-the-art applications of DNP NMR such as structure determination of cementitious materials and nanoparticle-shell interfaces, and methods to develop DNP into a widespread technique will be presented.

### **References:**

1. Y. Rao, et al. J. Phys. Chem. C 2022, 126, 27, 11310-11317.
2. Y. Rao, et al. J. Phys. Chem. Lett. 2022, 13, 7749-7755.
3. A. Morales-Melgares, et al. J. Am. Chem. Soc. 2022, accepted.
4. O. S. Lecina, et al. J. Am. Chem. Soc., 2022, 144, 9, 3998-4008.

***Wednesday, Dec 21<sup>st</sup> 2022***

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

***Auditorium, TIFR-H***