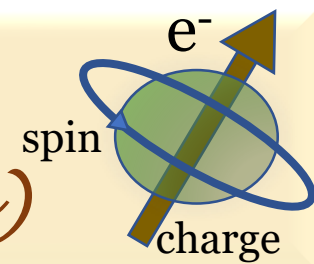




W2S Seminar

(Webinar series on Spintronics)



Beyond-CMOS computing: Spintronics, Ferroelectrics, and Magnetoelectrics

Speaker:

Prof. Bhagwati Prasad

Indian Institute of Science Bengaluru

Date and time:

12.05.2022 at

8.00 pm IST

i.e. 4.30 pm CET

Abstract

Over the last few decades, there have been continuous efforts to scale down both logic and storage components of microelectronic devices to nano regimes in the pursuit of enhancing speed and storage density, respectively. However, by reducing the dimension of these devices, the significant energy losses in the form of heat have been one of the critical issues for the microelectronic industry. In this talk, I will show my recent works on energy-efficient electronic devices for AI and IoT applications. My talk will be focused on oxide spintronic and ferroelectric devices, including electric field manipulation of magnetism in multiferroic based spintronic devices that promise to operate in the energy landscape of atto-Joule (aJ) range for per bit, which is 1000 times less than the current state-of-the-art technology in the semiconductor industry.

To attend the lecture please visit: **Passcode: 539183** Zoom link:

<https://us06web.zoom.us/j/86904302207?pwd=eDNGNjUrcW9yY0hHcHhVUEpvSy9RQT09>

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