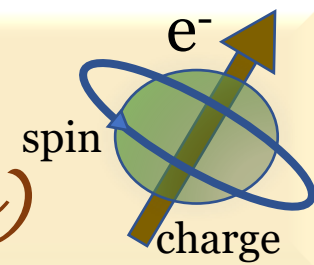




# W2S Seminar

(Webinar series on Spintronics)



## Operation of magnonic devices by voltage-controlled magnetic anisotropy (VCMA)

Speaker:

Prof. Bivas Rana  
Nanostructures Physics Division,  
Faculty of Physics,  
Adam Mickiewicz University in Poznań, Poland

**Date and time:**  
**24.05.2021 at**  
**03.00 pm (IST)**  
**i.e. 11.30 am CET**

### Abstract

Voltage-controlled magnetic anisotropy (VCMA) originated at the Ferromagnet/oxide interfaces due to the interfacial orbital hybridization and spin-orbit coupling has proven to be a very efficient tool for developing energy efficient miniaturized spintronics devices. In this webinar I will present the role of VCMA for the development of next generation magnonic devices which deals with the spin waves, i.e., collective precessional motion of localized magnetic spins in ferromagnetic materials. I will particularly focus on my research works about the excitation, channelling of spin waves; modulation of spin wave properties such as frequency, band structures; nonlinear modulation of damping constant by VCMA.

To attend the lecture please visit  
Zoom link: <https://zoom.us/j/96374388605>

Contact: Prof. Subhankar Bedanta (Convenor W2S)  
Email: [w2s-spintronics@niser.ac.in](mailto:w2s-spintronics@niser.ac.in)

For more information on W2S seminars please visit : <https://www.niser.ac.in/w2s-seminar/>