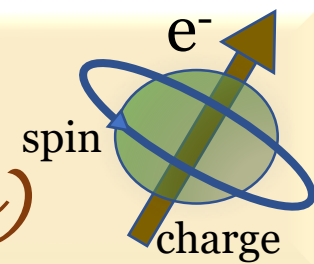




W2S Seminar

(Webinar series on Spintronics)



Rashba systems for in-memory spin computing



Speaker:

Dr. Sara Varotto

CNRS/Thales, France

Politecnico di Milano, Italy

Date and time:

26.05.2022 at

8.00 pm IST

i.e. 4.30 pm CET

Abstract

Spin-orbit systems open new possibilities for in-memory computing architectures, more efficient than conventional CMOS-based ones. The Magneto-Electric Spin-Orbit logic unit designed by Intel combines a nonvolatile memory element and a spin-orbit readout logic.

In my talk I will propose a simplified scheme based on the ferroelectric control of the Rashba states and related spin-charge interconversion. We will explore two-dimensional electron gas systems in oxides (SrTiO₃ and KTaO₃), as well as Ferroelectric Rashba Semiconductors (GeTe).

To attend the lecture please visit: **Passcode: 091976** Zoom link:
<https://us06web.zoom.us/j/86205440712?pwd=Qm1ZWHL3eStBQmRRbH RtdW9KdEJDZz09>

Contact:
Dr. Subhankar Bedanta (Convenor W2S)
Email: w2s-spintronics@niser.ac.in

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