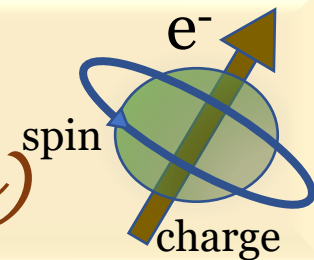# W2S Seminar
(Webinar series on Spintronics)

spin

charge

e⁻

p-bits: Between a bit and a qubit

Speaker:
Prof. Supriyo Datta,
Purdue University

**Date and time:
11.11.2021 at
8.00 pm IST
i.e. 3.30 pm CET**

Abstract

Digital computing is based on deterministic bits with two values, 0 and 1 which are often represented with stable magnets. On the other hand, quantum computing is based on qubits which are delicate superpositions of 0 and 1 and represented with individual spins. This talk draws attention to something in-between namely, *p-bits,* which are robust classical entities fluctuating between 0 and 1, that can be represented with unstable magnets and used as the building block for probabilistic computing [1,2].

[1] IEEE Spectrum   https://ieeexplore.ieee.org/abstract/document/9393992

[2] Appl. Phys. Lett.   https://aip.scitation.org/doi/full/10.1063/5.0067927

To attend the lecture please visit: **Passcode: xqTX7w** Zoom-link:
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WK3ZNYmJ5MEJiOTNCdz09

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