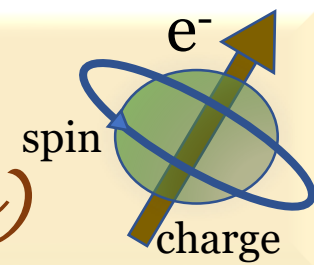




W2S Seminar

(Webinar series on Spintronics)



Spins, Bits & Flips: Essentials for a High-Density MRAM

Speaker:

Dr. Tiffany Santos

Western Digital, San Jose, CA

IEEE Magnetics Society Distinguished Lecturer

Date and time:

04.07.2022 at

8.00 pm IST

i.e. 4.30 pm CET

Abstract

I will describe the seminal discoveries that enabled MTJs for pervasive use in hard disk drives and MRAM. As the demand for faster and higher density memory persists, still more breakthroughs are needed for MTJs contained in device pillars (or bits) just tens of nanometers in diameter. I will give an overview of STT-MRAM and discuss the challenges the industry faces in producing a high-performance STT-MRAM. I will describe our work toward lowering the switching current while maintaining thermal stability and an innovative nanofabrication process for achieving dense arrays of MRAM bits with 50 nm full pitch.

To attend the lecture please visit: **Passcode: 609616** Zoom link:
<https://us06web.zoom.us/j/89124687724?pwd=U3o5VEljalRmRzUzSIJhcGhaUeEtLQT09>

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