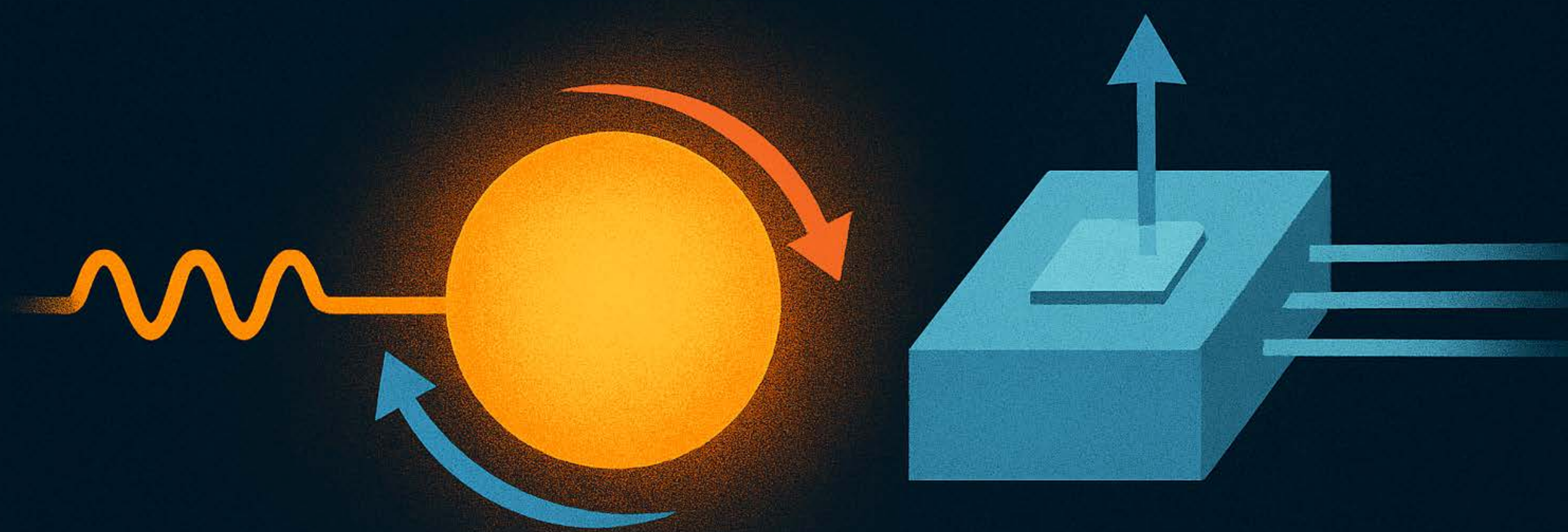




DEPARTMENT OF PHYSICS
INDIAN INSTITUTE OF TECHNOLOGY KANPUR

PHYSICS COLLOQUIUM

MAGNON SPINTRONICS



ABSTRACT

Magnonics or magnon spintronics is an emerging technology where magnons-quanta for spin waves – process the information analogous to electronic charges in electronics. This colloquium will introduce the building blocks of a magnonic device: the generation, detection, and manipulation of spin waves, which can be associated with the input, output, and gate, respectively. In this context, I will present some recent developments from our group, focusing on phenomena such as the inverse spin Hall effect, spin-orbit torque, and spin pumping, which are probed using ferromagnetic resonance and micro-Brillouin light scattering techniques.

ALL ARE CORDIALLY INVITED



SPEAKER



PROF. ARABINDA HALDAR
DEPARTMENT OF PHYSICS, IIT HYDERABAD



FB 382 (PROF. AMAL KUMAR
RAYCHAUDHURI SEMINAR ROOM)



FRIDAY, NOV. 14, 2025 AT 5:15 PM
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