

Plenary Talk

PLV I Mon 8:30 HSZ 01

Spin-Photon Interfaces and Their Applications — ●METE

ATATUERE — University of Cambridge

Optically active spins in solids are often considered prime candidates for scalable and feasible quantum-optical devices. Numerous material

platforms including diamond, semiconductors, and atomically thin layered materials are investigated, where each platform brings their own advantages along with their challenges. I will highlight the common challenges and the ways forward for some of the promising systems for applications in quantum networks and quantum sensing.