

# ITI QMat – QuanTEdu Scientific Day

June 17<sup>th</sup>, 2026, IPCMS Strasbourg

## Program (morning)

9h00-9h20 Welcome, summary of the ITI QMat scientific objectives, goals of the day (Silviu COLIS, IPCMS)

9h20-9h40 “Microscopic quantum description of surface plasmon polaritons: Revealing intrinsic ultrastrong light-matter coupling” (David HAGENMULLER & Guillaume WEICK, IPCMS)

9h40-10h00 “Structure and dynamics of a concentrated suspension under flow” (Pascal HEBRAUD, IPCMS)

10h00-10h20 “Stochastic thermodynamics inside an optical trap” (Cyriaque GENET, ISIS)

*Coffee Break*

10h50-11h10 “Hybrid quantum-classical dynamics of Rashba nanowires” (Giovanni MANFREDI, IPCMS)

11h10-11h30 “Architecture for a neutral atom quantum computer” (Shannon WHITLOCK, ISIS)

11h30-11h50 “Measurement of the tau lepton polarization in Z boson decays in proton-proton collisions at CMS and irradiation tests of 2S modules for the Phase-2 at CYRCé” (Jérémy ANDREA, IPHC)

11h50-12h10 “Amplitude analysis of  $B \rightarrow K \pi \pi \gamma$  decays in the Belle II experiment” (Isabelle RIPP-BAUDOT, IPHC)

*Lunch Break*

## Program (afternoon)

14h00-14h20 “Magnetic excitons in a suspended 2D antiferromagnetic membrane” (Arnaud GLOPPE, IPCMS)

14h20-14h40 “Magnetochemistry for greener and higher-performance Rare Earth purification” (Juan AGUIRRE, Remedy)

14h40-15h25 **General Seminar** : “Detecting and mitigating the effect of dissipation in quantum circuits” (Clemens WINKELMANN – LaTEQS / PHELIQS / CEA Grenoble)

*Coffee Break*

16h00-17h00 General information session (Matthieu BAILLEUL, IPCMS)

17h00-19h00 Poster Session (with Beer & Bretzel)

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