

Lien zoom pour la connexion :

<https://u-paris.zoom.us/j/83141777570?pwd=VjN2Mm16Zm4xMHJnQUVZRE1mOUROdz09>

ID de réunion : 831 4177 7570 ; Code secret : 956936

### Program

13h30 : Welcome. Presentation of the structure of the new GDR, chairs, scientific committee, tools, website... (C. Voisin)

13h45 : Forthcoming events and call to contributions (S. Berciaud)

13h55 : Link to the International Research Network (GDR-I) (A. Loiseau)

14h05 : Open discussion : what do you expect from your GDR ? (J. Coraux)

#### 14h20 : **Axis 1 : Synthesis and characterization of van der Waals Hetero-structures**

- Introduction and axis presentation (5 min)

- *M. Jamet* (CEA IRIG Grenoble), "Recent progress in the epitaxial growth of TMDs, 2D ferromagnets and their vdW heterostructures", (15+5 min)

- *D. Voiry* (IEM Montpellier), "Heterostructures of 2D materials: synthesis and applications in energy", (15+5 min)

#### 15h10 : **Axis 2 : Transport properties in van der Waals hetero-structures**

- Introduction and axis presentation (5+5 min) (*Félicien Schopfer* (LNE) / *Philippe Dollfus* (C2N))

- *Jean-François Dayen* (IPCMS), « 0D/2D Mixed-dimensional heterostructures : a versatile platform from optoelectronics to single electron electronics » (15+5 min)

- *Marco Pala* (C2N), « Ab-initio quantum transport simulation of 2D-materials-based electron devices » (15+5 min)

15h55-16h15 : Virtual coffee break

#### 16h15 : **Axis 3 : Optical and photonic properties**

- Introduction and axis presentation (10+5 min) (*Guillaume Cassabois* (LC2, Montpellier))

- *B. Urbazcek* (LPCNO, Toulouse), « magnetic/semiconducting heterostructures » (10+ 5min)

- *C. Attacalite* (CINAM, Marseille), « Theoretical methods in optical properties » (10 + 5min)

#### 17h05 : **Axis 4 : Spin and electronic correlations related properties**

- Introduction and axis presentation (5+5 min) (*Bruno Dluback* (Thalès/CNRS, Palaiseau) Saul)

- *A. Saul* (CINAM, Marseille), « Magnetoelastic interactions in the two-dimensional magnetic material MnPS<sub>3</sub> studied by first principles calculations and Raman experiments » (15+5 min)

- *V. Zato* (Thales/CNRS, Palaiseau), « Spin Filtering Manipulation in 2D semiconductors based Magnetic Tunnel Junctions » (15+5 min)

17h50-18h00 : Closing remarks