

Condensed Matter Physics in the Cities 2019

week 3: 15 - 16 July

Monday 15 July

11 Bedford Square, Room 1-01, London, WC1B 3RF

10:00 - 10:45

Johannes Lischner (Imperial College), Twist-angle dependence of strong correlations in graphene bilayers

10:45 - 11:15

Discussion

11:15 - 11:30

Coffee/Tea

11:30 - 12:15

Niels Walet (University of Manchester), Continuum approximations and small angle twisted bilayer graphene

12:15 - 12:45

Discussion

Lunch Break

14:00 - 14:45

Angelo Valli (Vienna University of Technology), Electronic correlations, symmetries, and lack thereof: graphene from bulk to the nanoscale

14:45 - 15:15

Discussion

15:15 - 15:45

Coffee/Tea and discussions

15:45 - 16:30

Paco Guinea (Fundacion IMDEA Nanociencia, Madrid), Superconductivity in twisted bilayer graphene: electronic structure and interactions

16:30 - 17:00

Discussion

Tuesday 16 July

11 Bedford Square, Room 1-01, London, WC1B 3RF

10:00 - 10:45

Allan MacDonald (University of Texas at Austin), Interactions in Magic-Angle Flat Bands

10:45 - 11:15

Discussion

11:15 - 11:30

Coffee/Tea

11:30 - 12:15

Dmitri Efetov (Barcelona Institute of Science and Technology), Superconductors, orbital magnets, and correlated states in magic angle bilayer graphene

12:15 - 12:45

Discussion

Lunch Break

14:00 - 14:45

Joseph Betouras (Loughborough University), Electronic phases in a model for twisted bilayer graphene at magic angles, as a result of Van Hove singularities and interactions

14:45 - 15:15

Discussion

15:15 - 15:35

Mattia Angeli (SISSA, Trieste), Valley Jahn-Teller effect in twisted bilayer graphene

15:35 - 15:45

Discussion

15:45 - 16:15

Coffee/Tea and discussions

16:15 - 16:45

Philip Crowley (Boston University), Topologically distinct classes of quantum dynamics and the critical points between them

16:45 - 17:00

Discussion

Wednesday 17 July, Thursday 18 July, Friday 19 July:
Theoretical and Experimental Magnetism Meeting, Cosener's House, Abingdon
<https://www.isis.stfc.ac.uk/Pages/temm-2019.aspx>

Practical informations

Conference website:

<https://www.royalholloway.ac.uk/research-and-teaching/departments-and-schools/physics/physics-events/2019-07-01-condensed-matter-physics-in-the-city/>

Directions:

11 Bedford Square, Room 1-01, London, WC1B 3RF: <https://intranet.royalholloway.ac.uk/staff/campus-life/bedford-square-and-senate-house/bedford-square-and-senate-house.aspx?>

Cosener's House, Abingdon, Oxfordshire, UK: <https://stfc.ukri.org/about-us/where-we-work/rutherford-appleton-laboratory/the-cosener-s-house/>