

## Poster Session I, Monday 15 July 2024, 21:00 h

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|--------------------------------|---|
| Kuo-En Chang                   | Unusual quantum hall state in near 30°-twisted bilayer graphene   |
| Olfa Dani                      | Measuring spin-flip rates of single spins in coupled quantum dots   |
| David Alexander Darek Emmerich | Ultra-steep slope cryogenic FETs based on bilayer graphene  |
| Marta García Olmos             | Topology and disorder in a 2D semi-Dirac material   |
| Jonas Gerber                   | Spin-orbit coupling in bilayer graphene/transition-metal dichalcogenide quantum devices                   |
| Maximilian Graml               | Excitons in nanostructures from the Bethe-Salpeter equation   |
| Jianping Guo                   | Current-induced switching in van der Waals $\text{WTe}_2/\text{Fe}_3\text{GeTe}_2$ heterostructures       |
| Marcel Hild                    | THZ-induced linear and circular ratchets in patterned-gated graphene                                      |
| Wolfgang Hogger                | Interference effects in high-harmonic generation from Dirac materials                                     |
| Yu-Chiang Hsieh                | Possible signature of frustrated magnetism in kagome-strained graphene                                    |
| Che-Pin Hsu                    | Fabry-Pérot interference in gate-controlled graphene superlattice   |
| Tzu-Chao Hung                  | Understanding single molecule fluorescence by means of scanning tunneling microscopy-induced luminescence |
| Andreas Hüttel                 | $\text{MoS}_2$ nanotubes as intrinsic 1d superconductors?   |

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| Wun-Hao Kang            | Transverse magnetic focusing of the radial rashba spin-orbit coupling in proximitized graphene                             |
| Jhen-Dong Lin           | Unveiling the importance of finite-momentum dark excitons to energy transfer in monolayer transition-metal dichalcogenides |
| Yen Ting Liu            | Hybrid superconductor-quantum dot devices utilizing magic-angle twisted bilayer graphene                                   |
| Alina Mrenca-Kolasinska | Modeling transverse magnetic focusing in circular cavity   |
| Florian Schöppel        | Magneto transport in bilayer graphene cavities   |