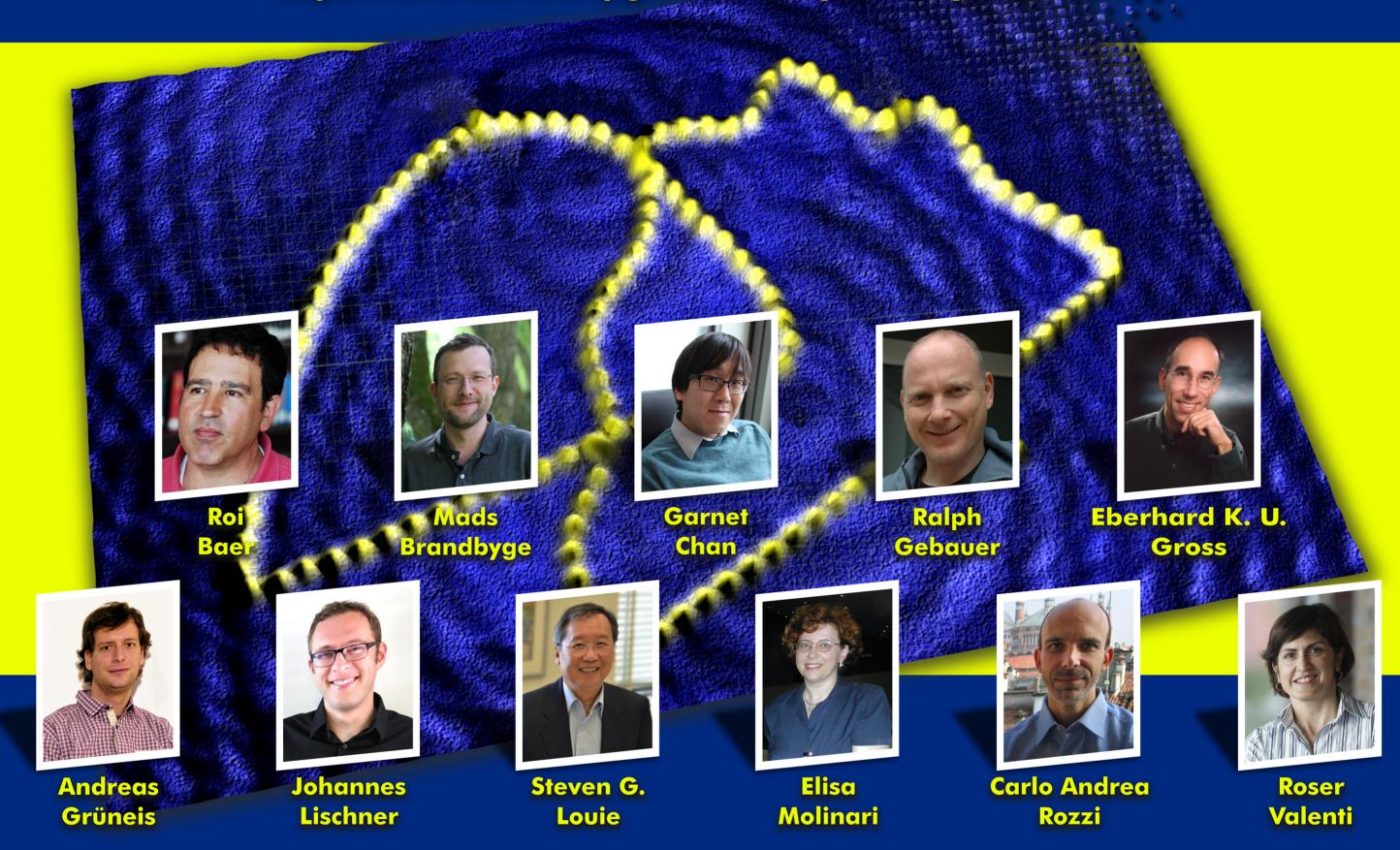
Frontiers of Electronic Structure Theory: Many-body effects on the nano-scale

Symposium at the DPG Spring Meeting 2015 in Berlin http://th.fhi-berlin.mpg.de/meetings/DPGSym2015/



Tuesday, March 17 - Friday, March 20 - TU Berlin

Invited and contributed talks, poster session

10:30 a.m. - 1:30 p.m. (MA004) **Tuesday, March 17** 019 Thursday, March 19 **O78** 10:30 a.m. - 1:15 p.m. (MA004) Tuesday, March 17 2:00 p.m. - 3:45 p.m. (MA004) **O26** Thursday, March 19 085 3:00 p.m. - 6:30 p.m. (MA004) Wednesday, March 18 O47 10:30 a.m. - 1:30 p.m. (MA004) 3:00 p.m. - 6:30 p.m. (MA004) Wednesday, March 18 O56 Friday, March 20 094 9:30 a.m. - 12:15 p.m. (H0105)

Eberhard K. U. Gross: Electronic structure in the vicinity of strong non-adiabatic couplings (Tuesday, 10:30 a.m.) • **Johannes Lischner:** First-principles theories of electron-plasmon and electron-spin fluctuation interactions in nanomaterials (Tuesday, 2:00 p.m.) • Mads Brandbyge: Transport and excitations in biased nano-junctions: DFT-based simulations (Wednesday, 10:30 a.m.) • Carlo Andrea Rozzi: Ultrafast coherent dynamics in photovoltaics (Wednesday, 3:00 p.m.) • Steven G. Louie: Interaction and correlation effects in quasi two-dimensional materials (Thursday, 10:30 a.m.) • Ralph Gebauer: Natural orbital functional theory with higher-order occupation probabilities (Thursday, 3:00 p.m.) • Elisa Molinari: Excitations and charge transfer phenomena in C based systems (Friday, 9:30 a.m.) • Andreas Grüneis: Towards optimal correlation factors for many-electron perturbation theories (Friday, 10:00 a.m.) • Garnet Chan: Towards an ab-initio description of high temperature super-conductivity (Friday, 10:30 a.m.) • Roser Valenti: Correlation effects in unconventional superconductors: from micro- to nano- and macroscales (Friday, 11:15 a.m.) • Roi Baer: Stochastic density functional and GW theories scaling linearly with system size (Friday, 11:45 a.m.)

> Posters related to the focussed session will be presented at the poster sessions O67+O68: Wednesday, March 18, 6:15 p.m (poster area A)

> > Organized by Steven G. Louie¹⁾, Erich Runge²⁾, and Matthias Scheffler³⁾

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Scientific Get. 10:00 p.m.

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