## Spectroscopic aspects and pairing glue of superconductivity in the 2D Hubbard model

E. Gull<sup>1</sup>, A. J. Millis,<sup>2</sup>

<sup>1</sup>Department of Physics, University of Michigan, Ann Arbor, MI 48109, USA <sup>2</sup>Department of Physics, Columbia University, New York, NY 10027, USA

We explore spectroscopic and energetic aspects of the d-wave superconducting state found in the intermediate correlation regime of the two-dimensional Hubbard model. Recently developed continuous-time quantum Monte Carlo and quantum cluster methods have enabled the explicit construction of this superconducting state on the same footing as the normal state metal, the pseudogap, and the Mott state. We focus on the interplay of these states and the evolution of the c-axis and Raman response functions and analyze the pairing glue.

## References

[1] E. Gull and A. J. Millis, Phys. Rev. B 90, 041110(R) (2014).

- [2] E. Gull and A. J. Millis, Phys. Rev. B 88, 075127 (2013).
- [3] E. Gull and A. J. Millis, Phys. Rev. Lett. 110, 216405 (2013).
- [4] E. Gull and A. J. Millis, Phys. Rev B 86, 241106(R) (2012).