Computational Implementation and Data

BCS code

The implementation of BCS self-consistency with finite momentum was done by me from ground-up. The code and documentation is available at github.com/Ruberhauptmann/quant-met. The implementation relies on the work of many contributors of packages in Pythons ecosystem, most important among them NumPy [1], SciPy [2], Matplotlib [3], Pandas [4, 5] and Parasweep [6].

All the data and instructions on how to reproduce the calculations and analysis is available at osf.io/sajeh/. For reproducibility, Datalad [7] is used.

DMFT

DMFT loop using TRIQS [8], it can also be found under osf.io/sajeh/.