TRIQS

Overview

TRIQS (Toolbox for Research on Interacting Quantum Systems) is a scientific project providing a set of C++ and Python libraries to develop new tools for the study of interacting quantum systems. The goal of this toolkit is to provide high-level, efficient and simple to use libraries in C++ and Python, and to promote the use of modern programming techniques.

The TRIQS-based hybridization-expansion solver CTHYB allows to solve the generic problem of a quantum impurity embedded in a conduction bath for an arbitrary local interaction vertex. The “impurity” can be any set of orbitals, on one or several atoms.

Both these packages have to be installed on your system prior to the build of Abinit if you wish to solve the corresponding DMFT problems with Abinit. The following sections explain the whole process step-by-step.

Installing TRIQS

Put instructions here.

Installing CTHYB

Put instructions here.