

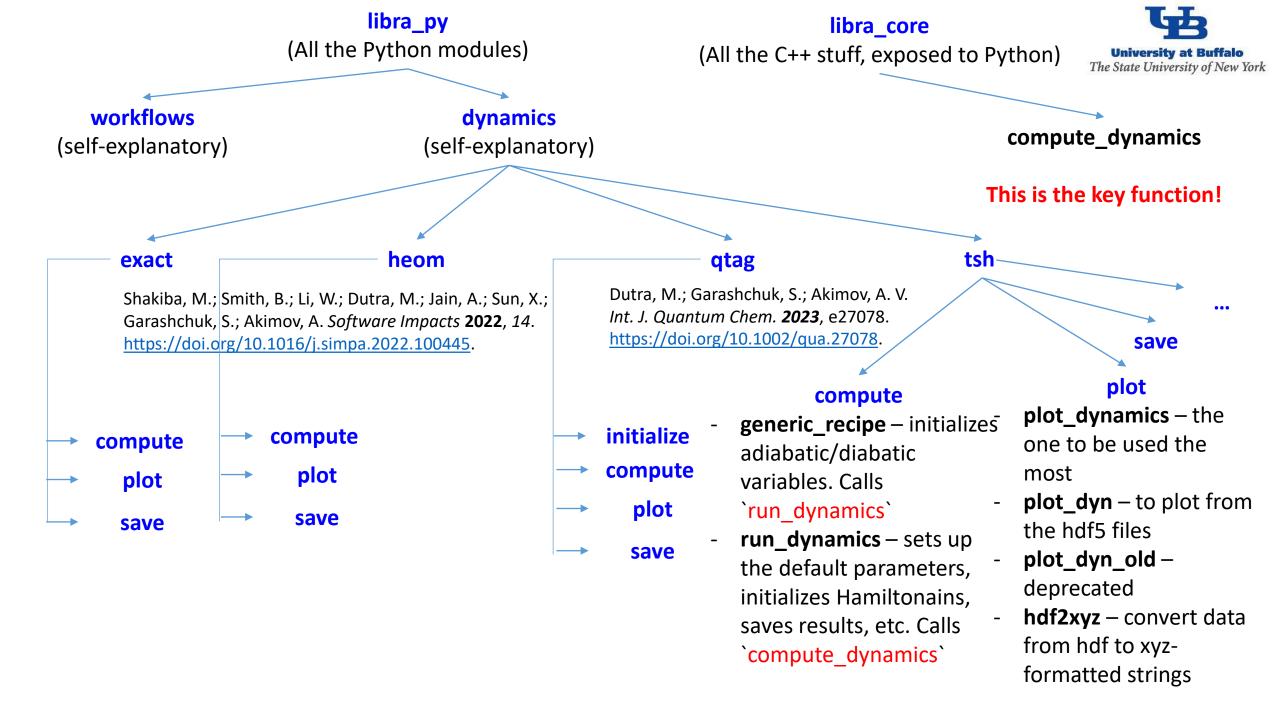
## Libra Summer School and Workshop 2024

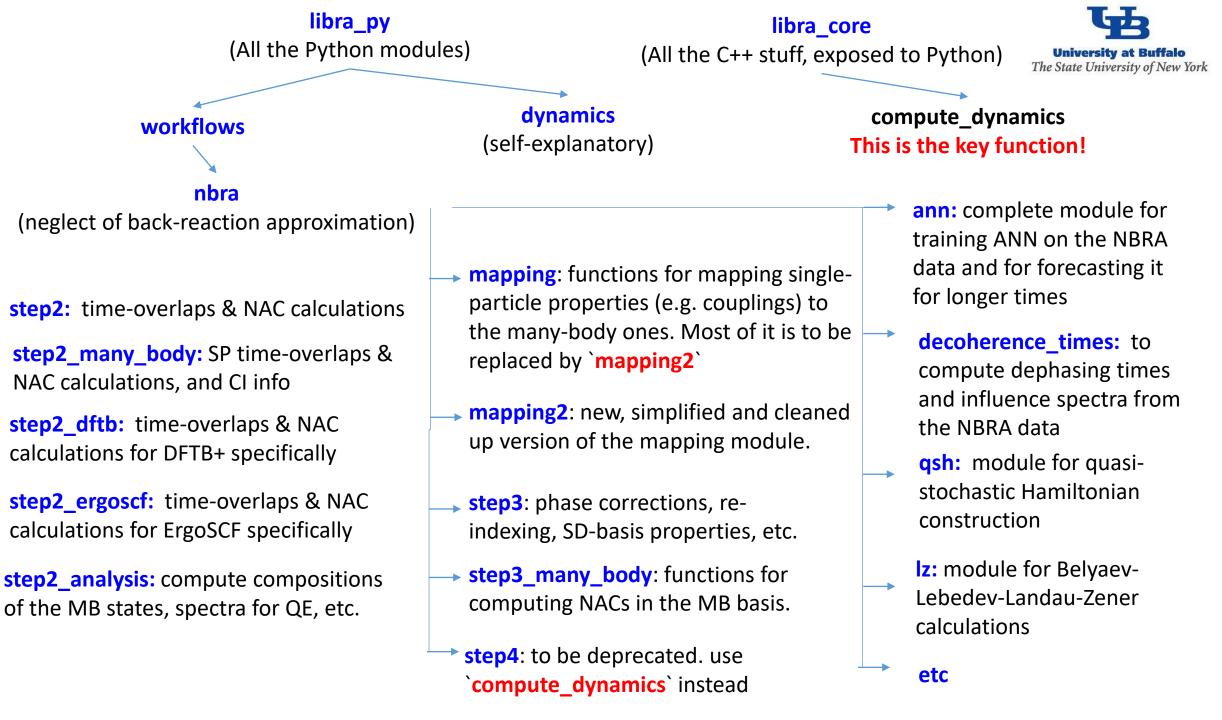
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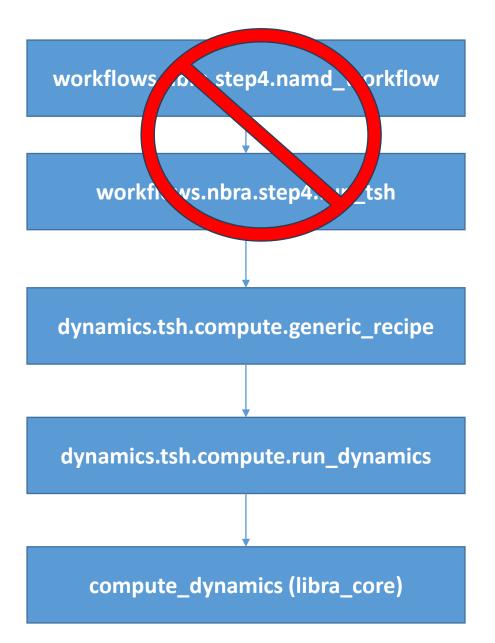
## Structure of Libra package Atomistic Workflows





## **Brief Overview of the Deprecated step4**





Parallelization, multiple methods/initial conditions

Initialization of nuclear variables

Initialization of electronic variables, transformation to the desired representation, nHamiltonian object construction and initialization

Initialization of default parameters, writing files, computing some observables, thermostat variables, iteration over nuclear timesteps

TSH/Ehrenfest and decoherence algorithms, trajectory coupling, Hamiltonian properties updates (calling external Python functions)