

#16 Qiskit-alt package

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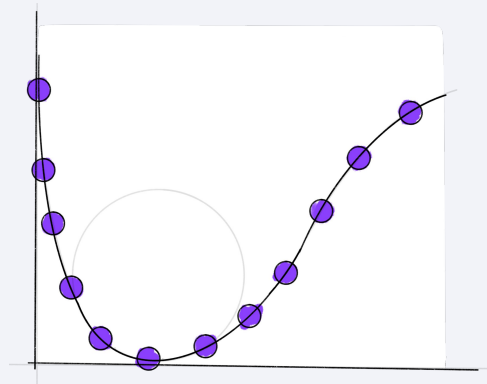
Mentee: Sahar Ben Rached



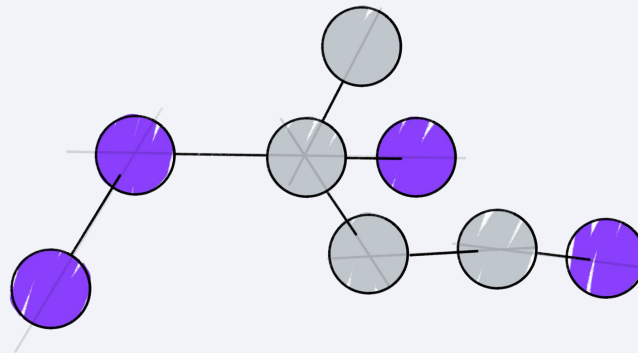
What is qiskit-alt package

Qiskit-alt is a Python package that uses a backend written in Julia to implement features for Qiskit.

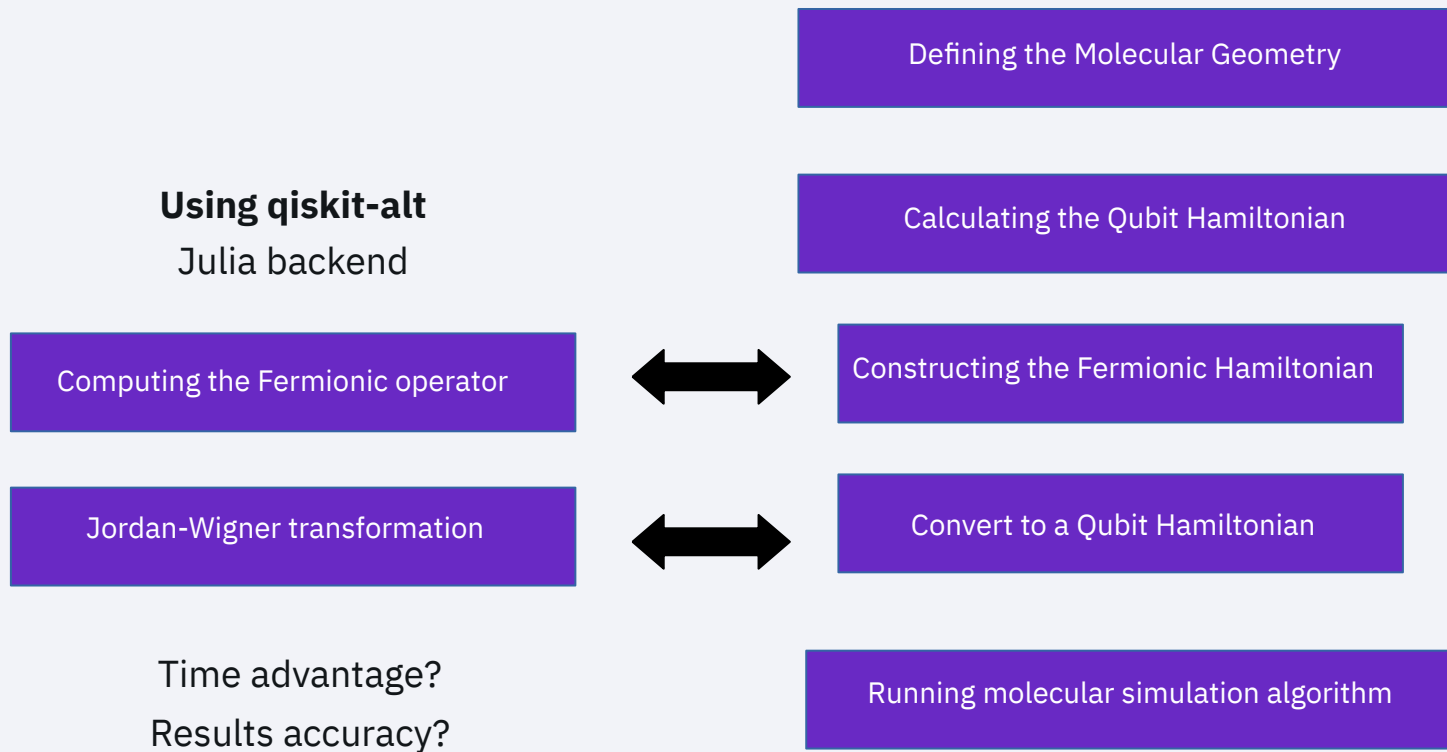
Molecular simulation algorithms: e.g VQE



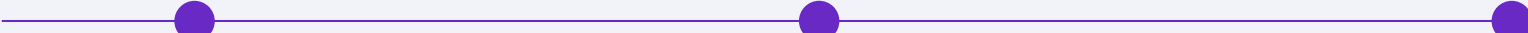
More performant generation of fermionic hamiltonian



How to use qiskit-alt package



Objective: Integrate qiskit-alt in qiskit nature workflow

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- A horizontal purple line with three purple circular markers, serving as a timeline for the project plan.
- Generate Hamiltonian operators with qiskit-alt
 - VQE tutorial

- Features of Qiskit Nature
- Testing molecular simulation algorithms
- Testing performance

Release a plugin to use qiskit-alt in qiskit nature workflow

Thank you!

Github repository:

github.com/Qiskit-Extensions/qiskit-alt/

