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Description of project

With the next observing run of LVK (O4) beginning in May 2023, the importance of increased computational resources for GW detections is key to detect a larger population and more sensitive events. By expanding those resources for medium-latency events, we are improving the evaluation of the efficiency of these detections to produce results faster.

CAREER

Goals

Evaluate optimization options and develop strategies. Expand computational resources for GW detection. Implement some optimizations. Perform extensive testing.



Timeframe (6 months)

Start Date: March 1, 2023 End Date: August 31, 2023



What I hope to learn

Understand using LVK analysis codes Develop test cases Become familiar with HPC Learn how to implement optimizations



Goals for the next month

Project background work Get HPC access Begin GitHub project setup

