

# GQPMC Report

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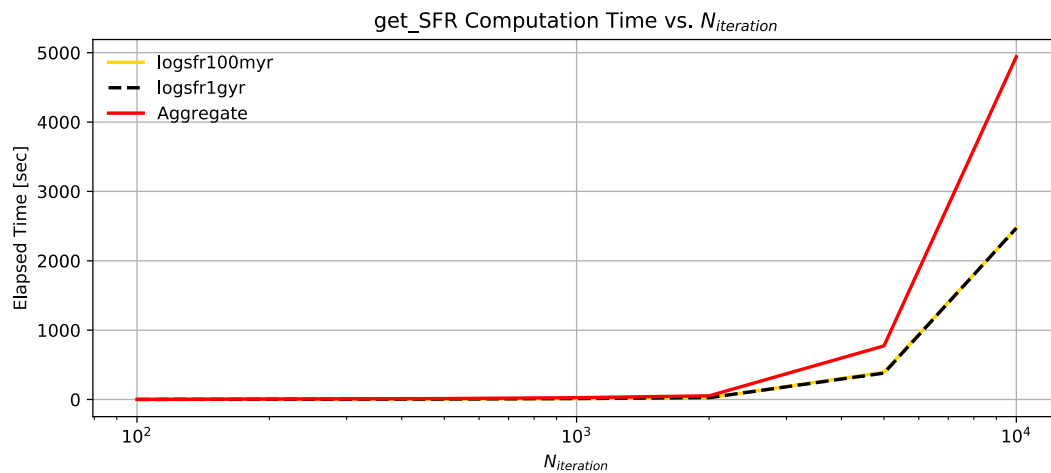
## 1. Adaptive Convergence Monitoring (ACM) Implementation

### Result Summary:

- The ACM was implemented to the fitters.py file.
- Added a *safety lever* as a variable named `stable_convergence`. It is initially set equal to zero and increments when the returned PSRF is less than 1.1. It gets reset to zero whenever the PSRF goes above 1.1. When the `stable_convergence` reaches 3, the chain gets terminated.

## 2. `get_SFR` function call time

The plot is attaced below:



### Result Summary:

- Print statements were inserted between every lines in the `MED_spectrophoto`, and it turned out that the `get_SFR` function call required substantial amount of time.
- It seems that the time required for `get_SFR` function call scales steeply with the number of iterations.