

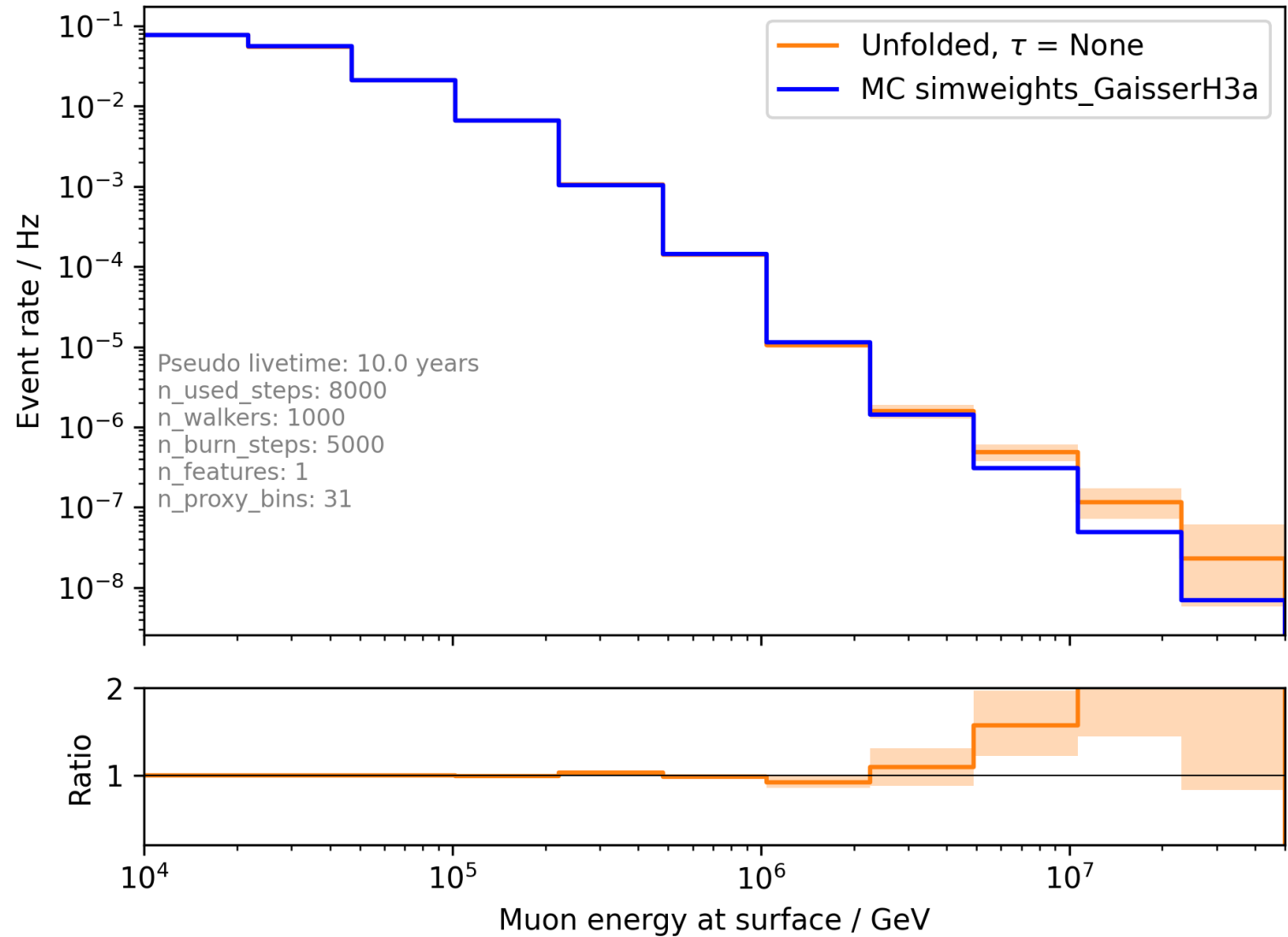
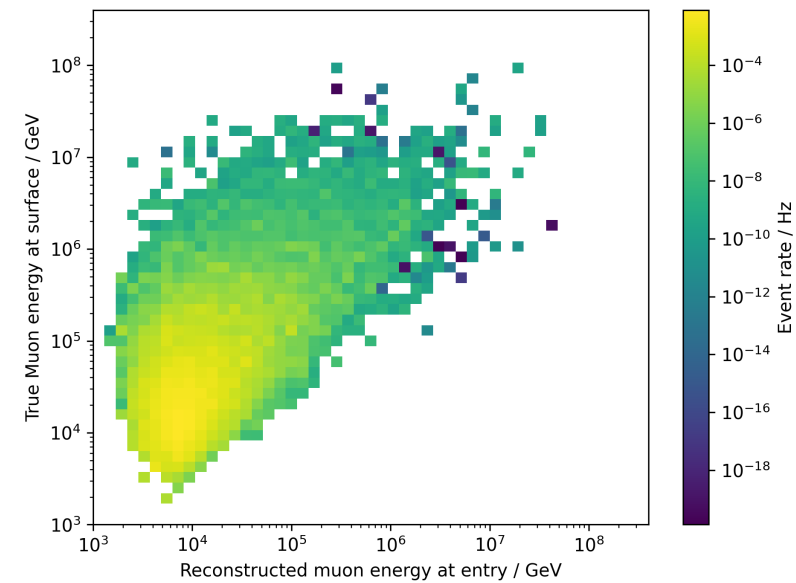
Prompt muons: unfolding

Pascal Gutjahr

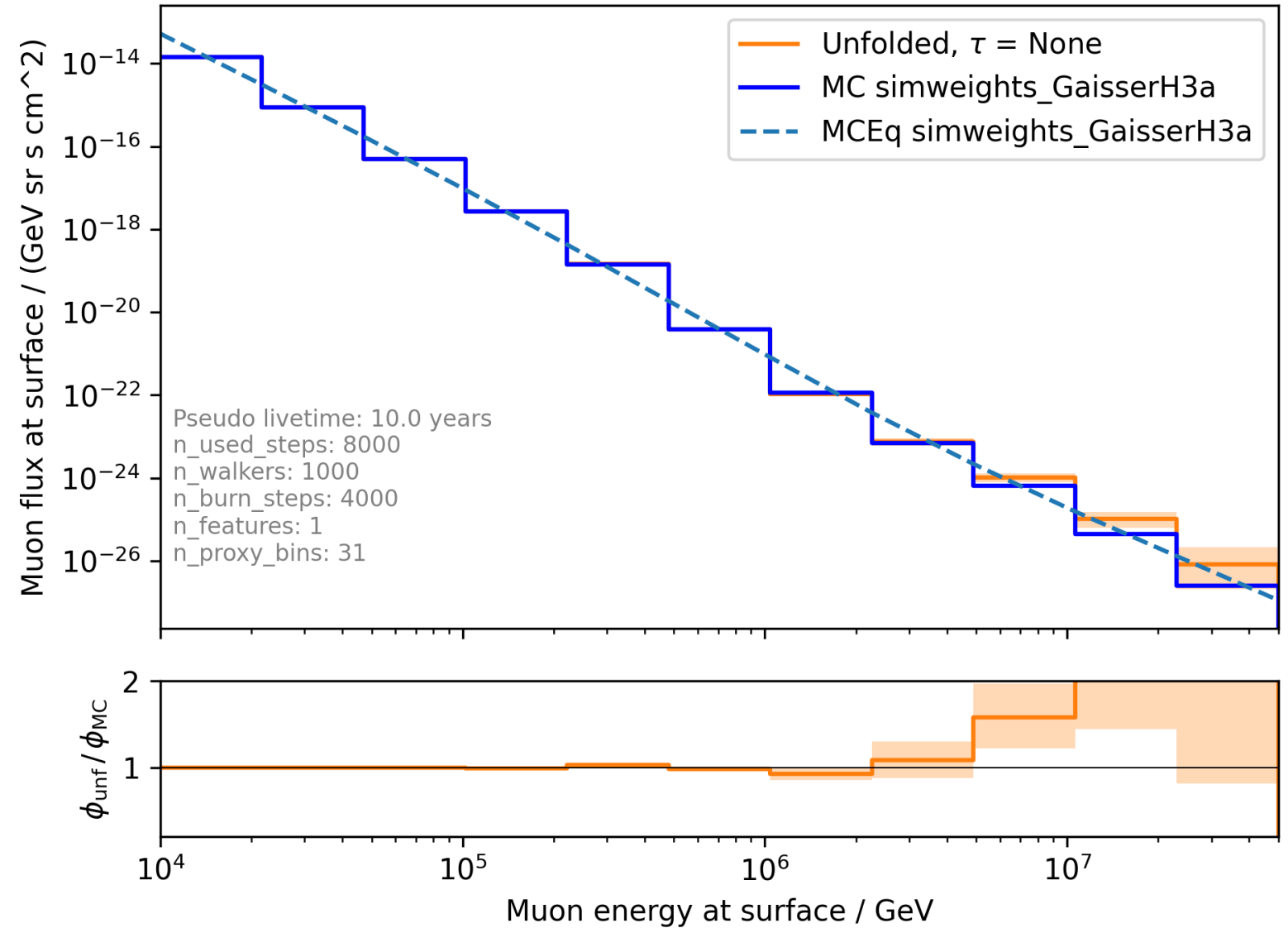
May 23, 2024

Unfold event rate

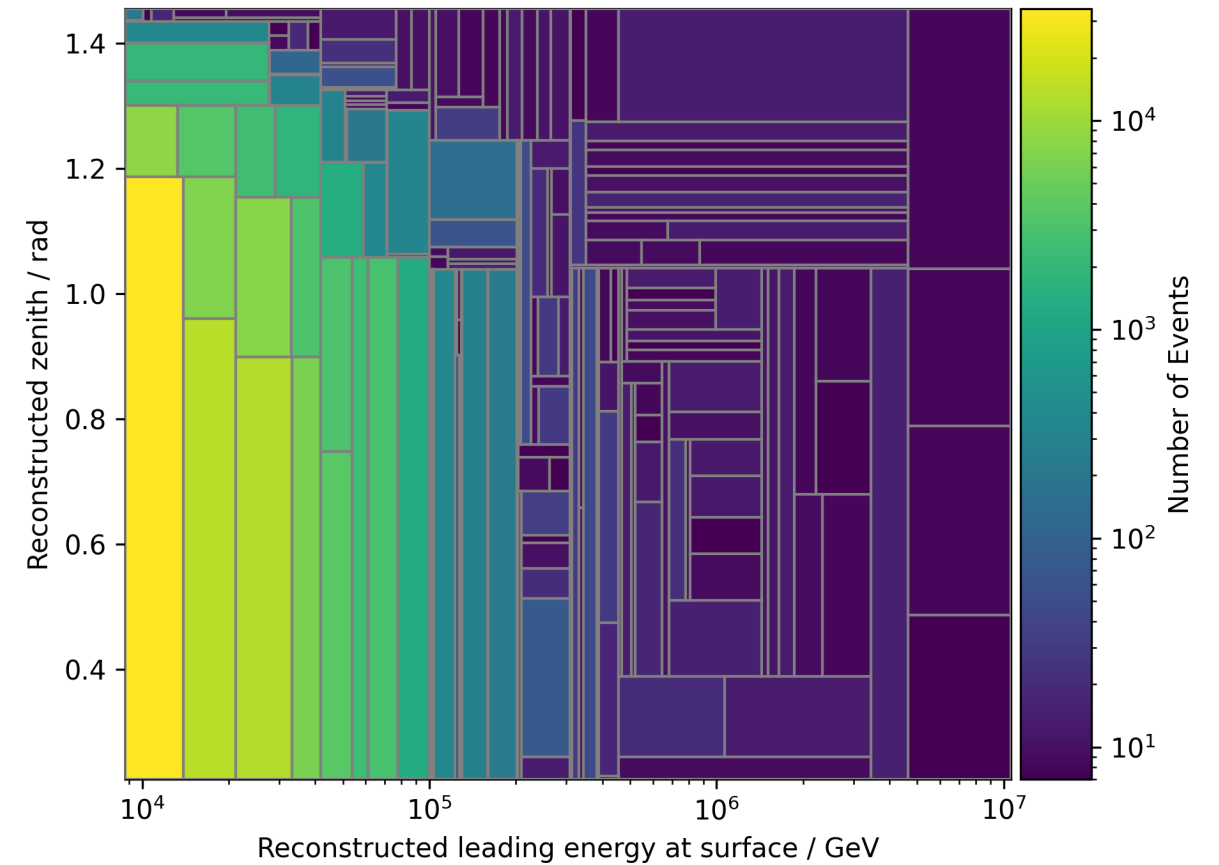
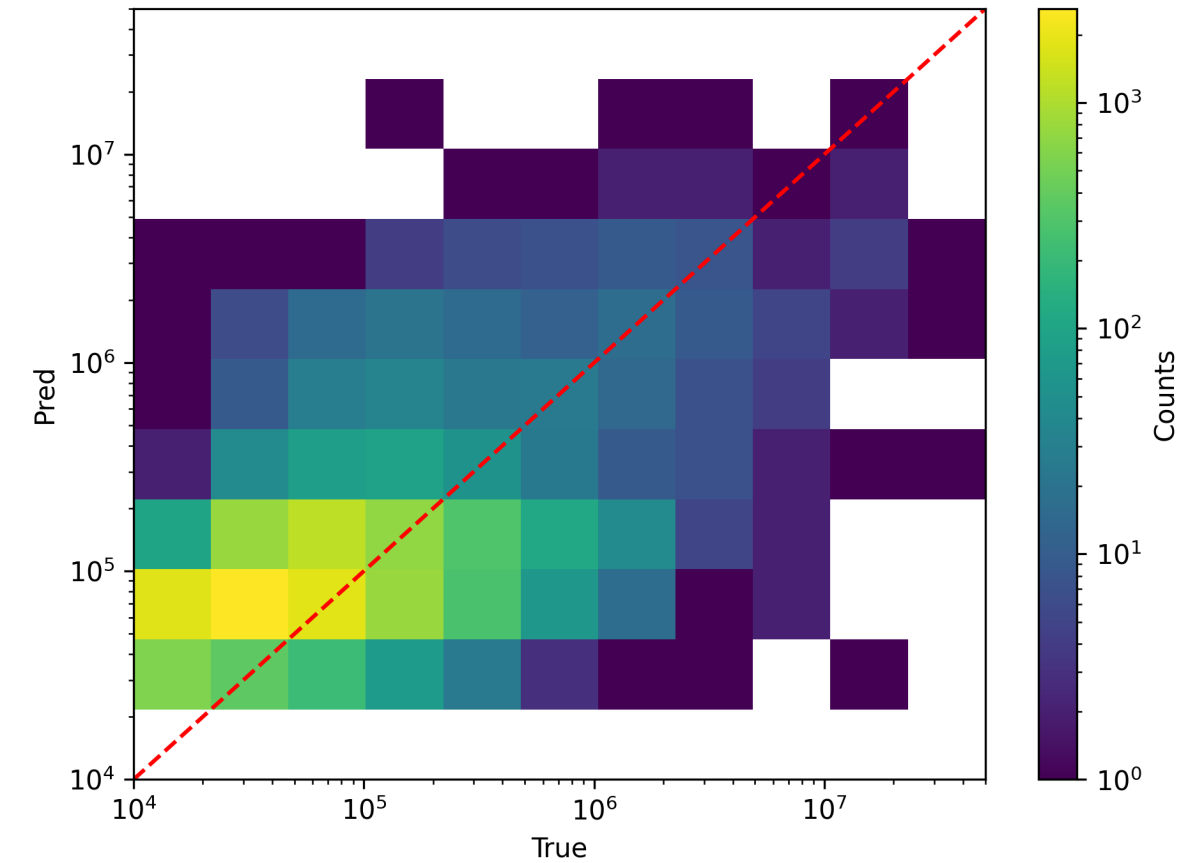
Proxy



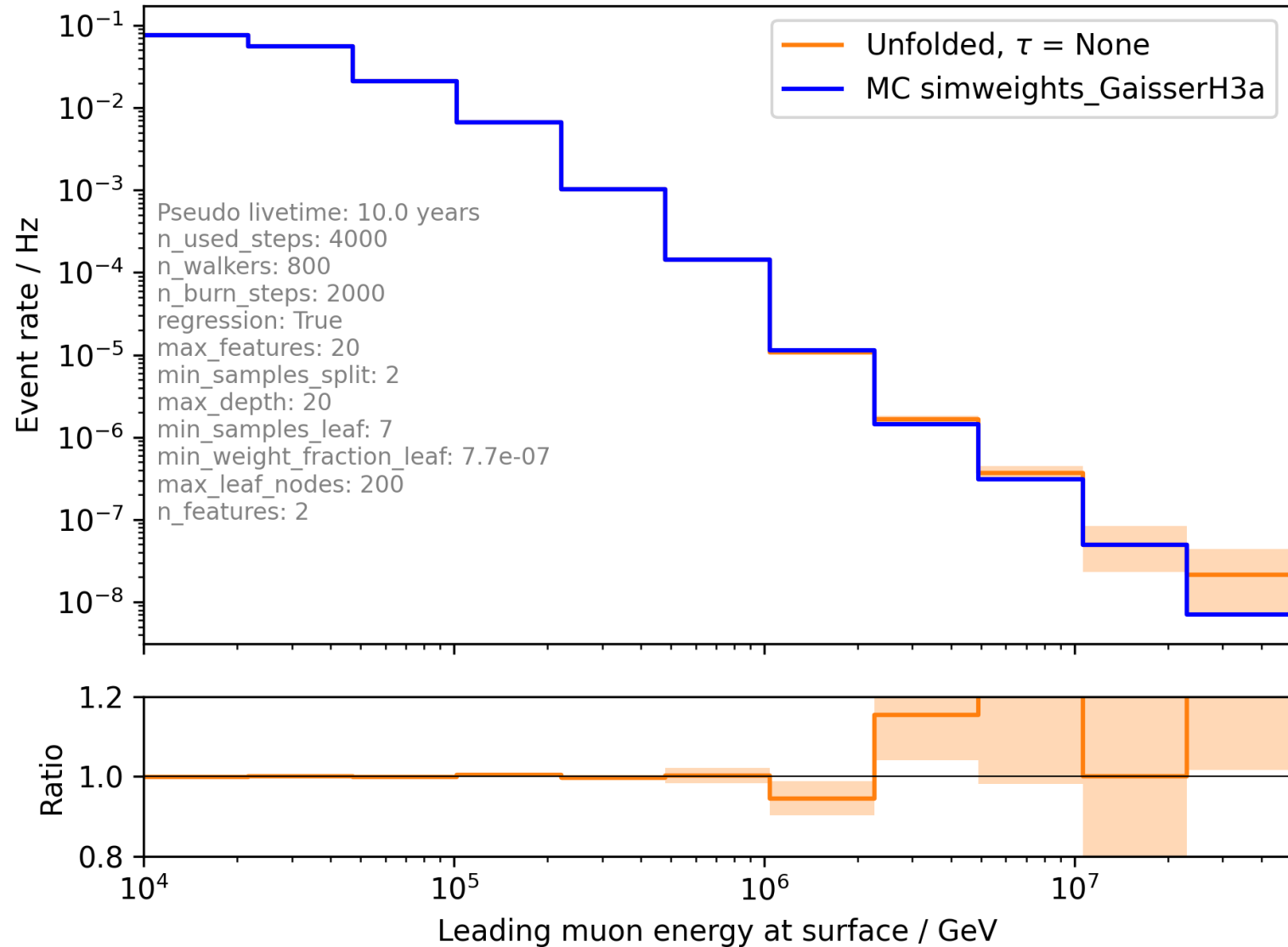
Unfold muon flux



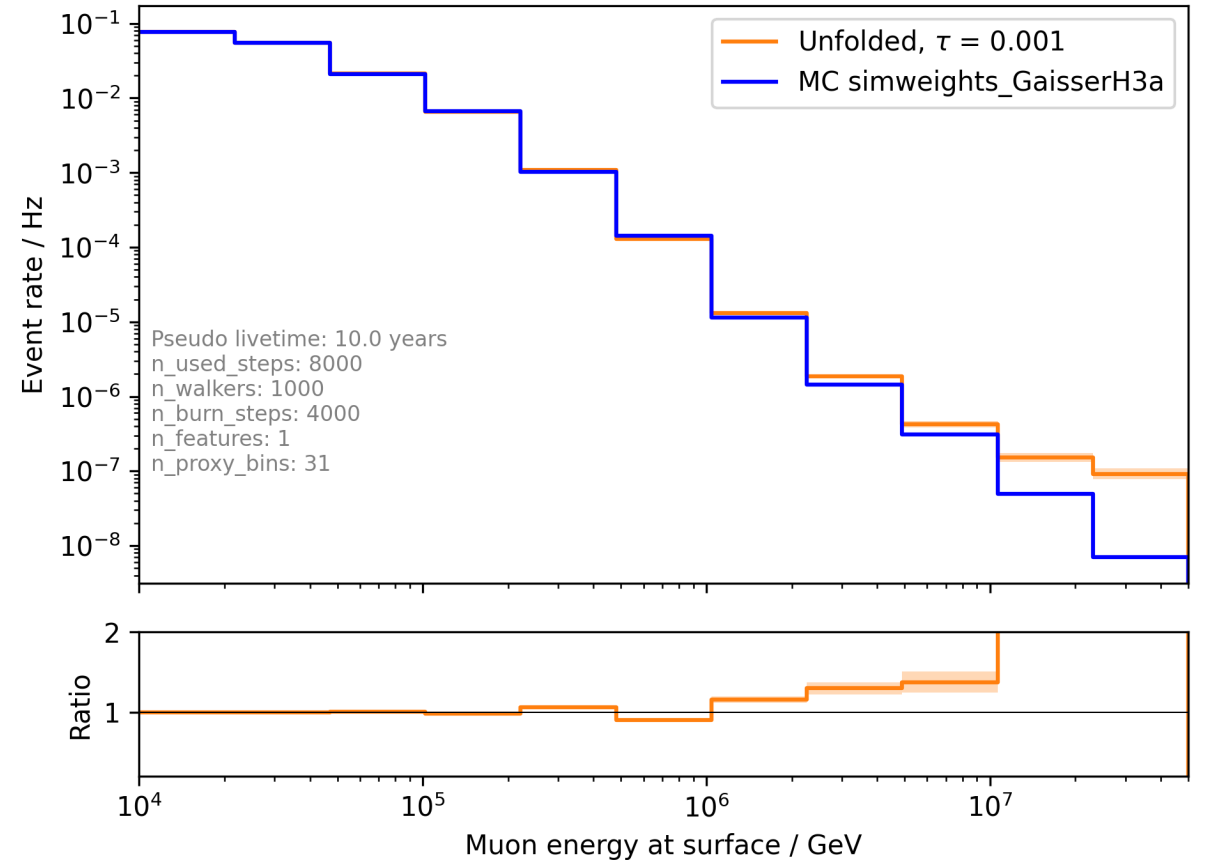
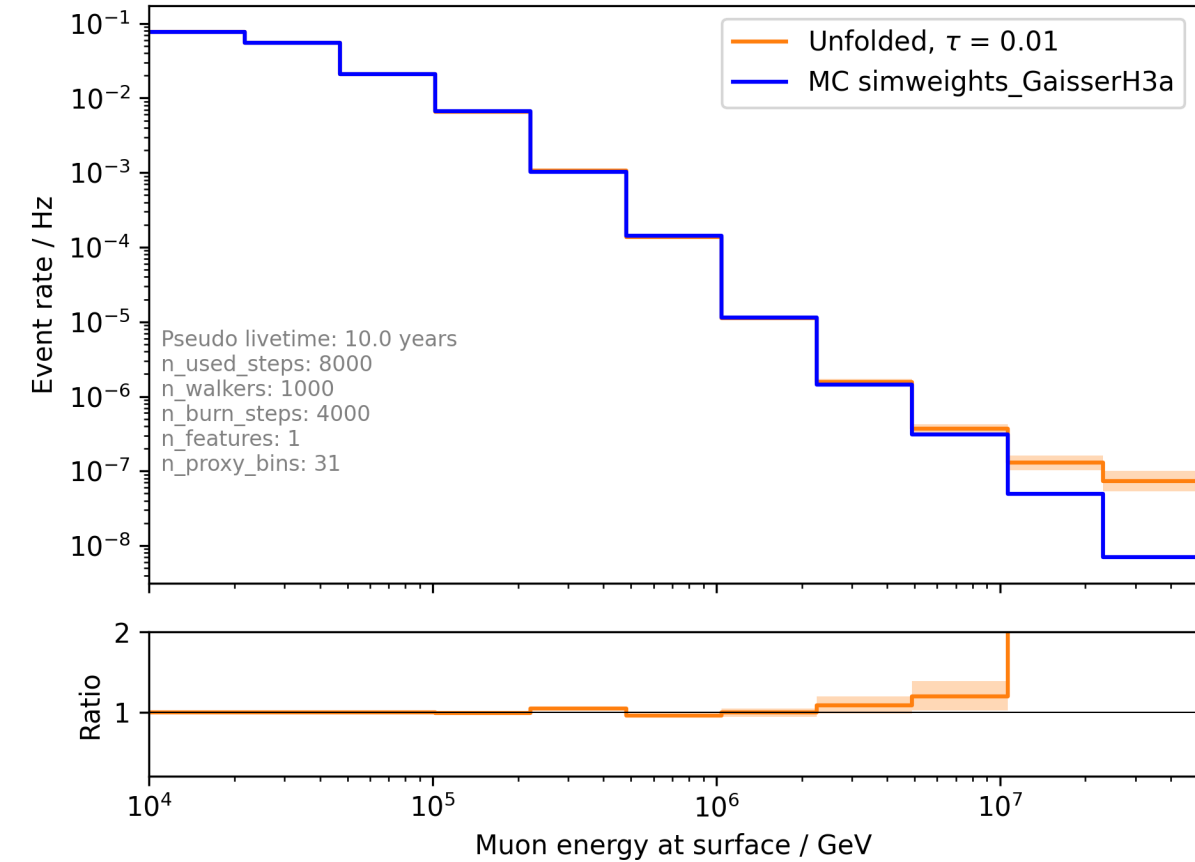
Tree binning – energy and zenith



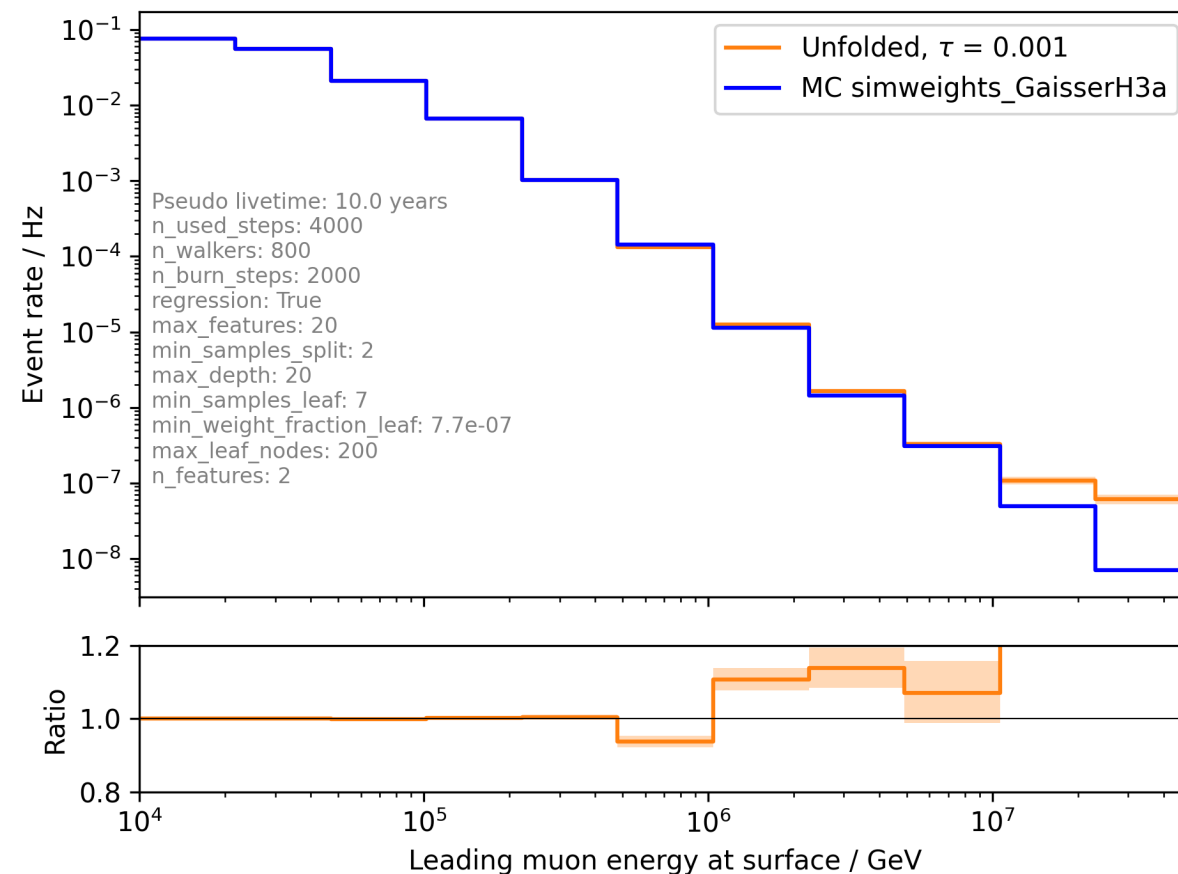
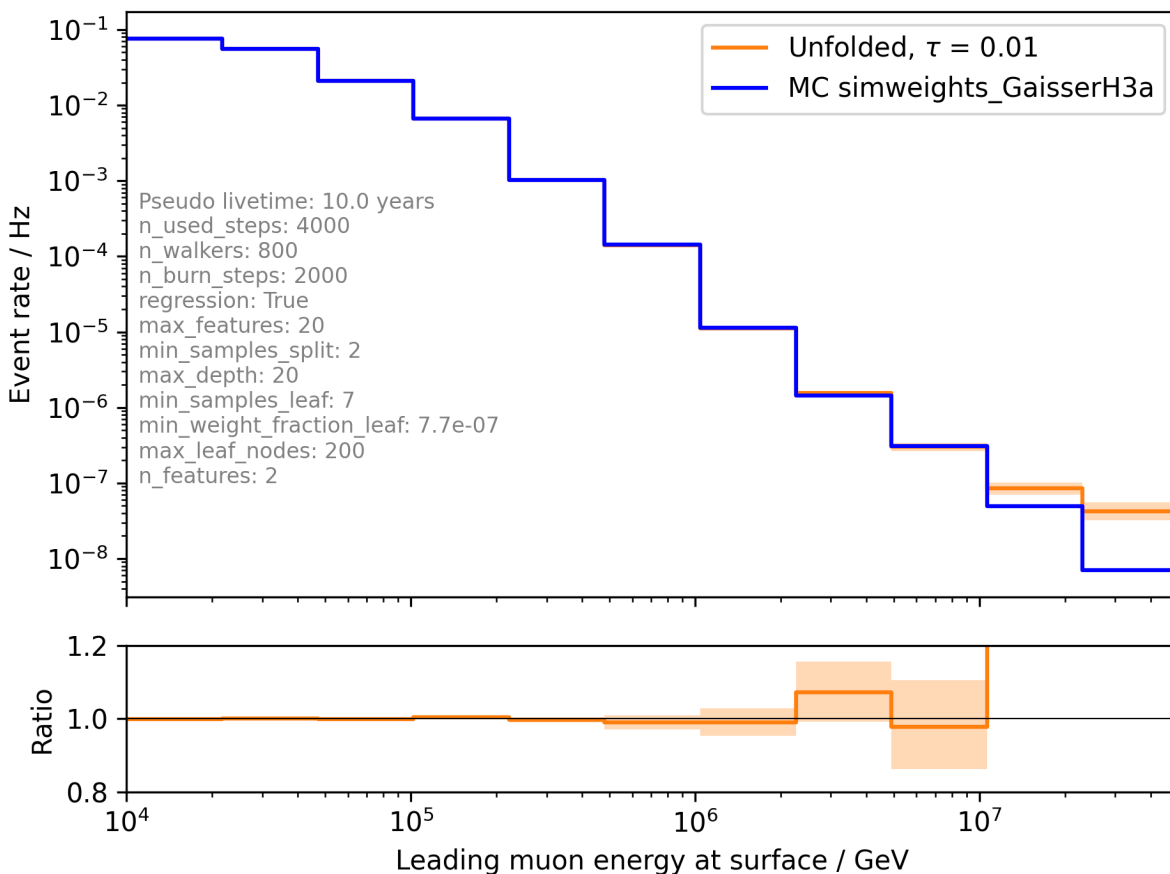
Unfold event rate with tree binning



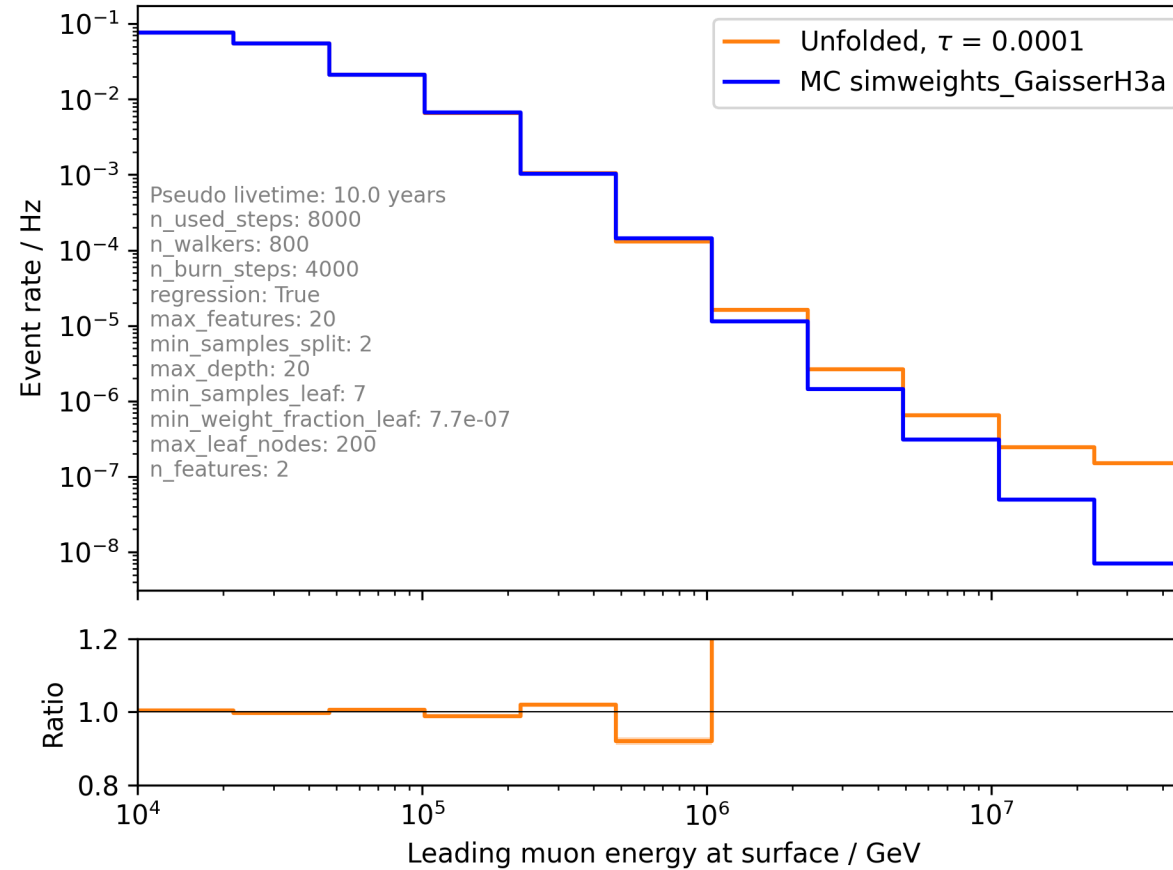
Test regularization (event rate, classical binning)



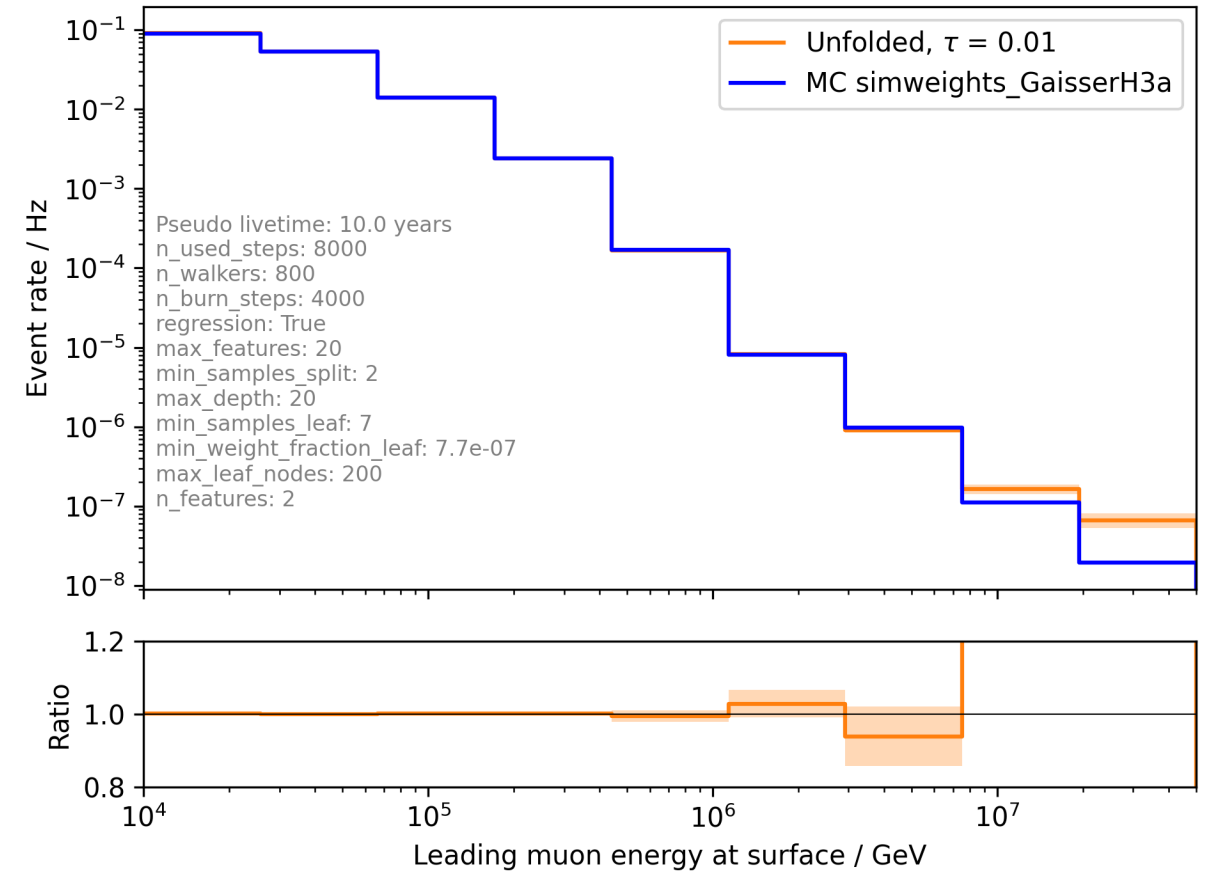
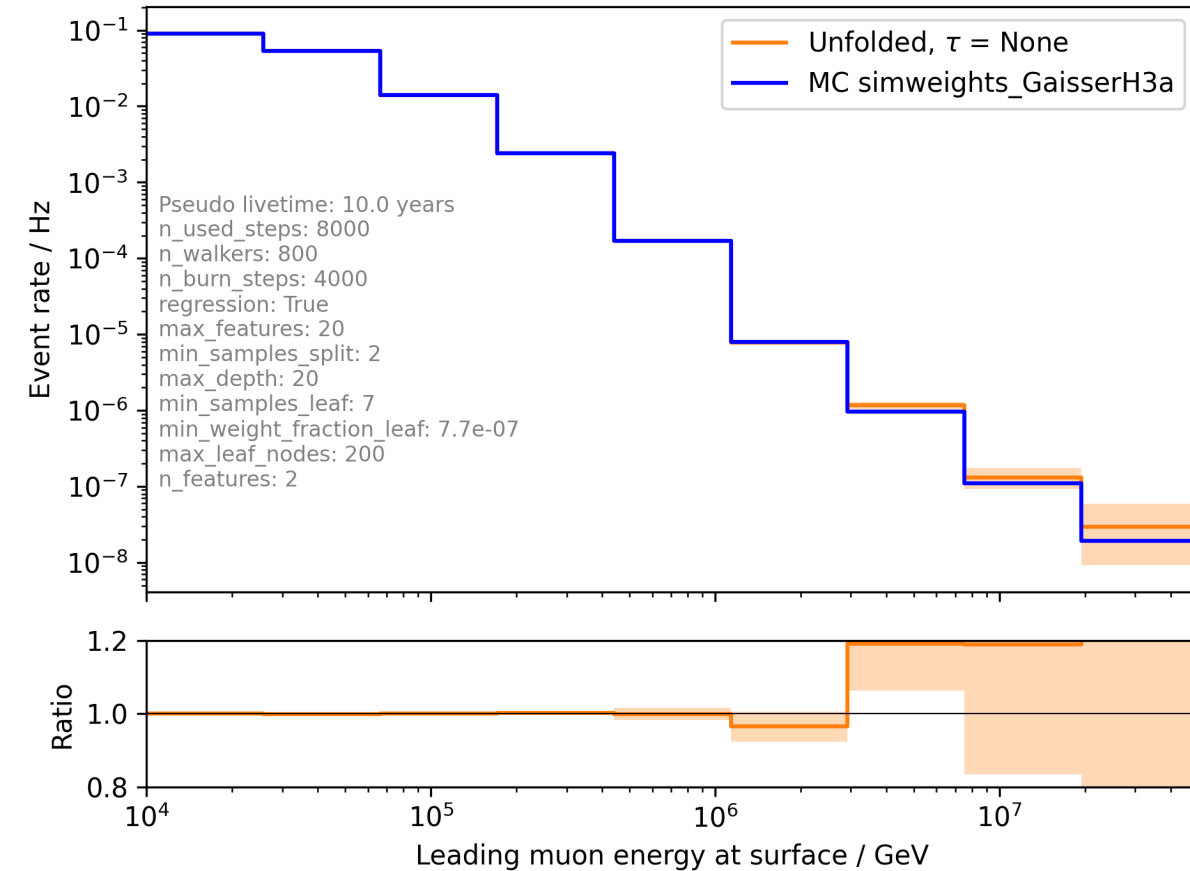
Test regularization (event rate, tree binning)



Test regularization (event rate, tree binning)



Two unfolding bins less



Questions

- What is the correct way to choose the regularization parameter?
- How do you define the unfolding bins?