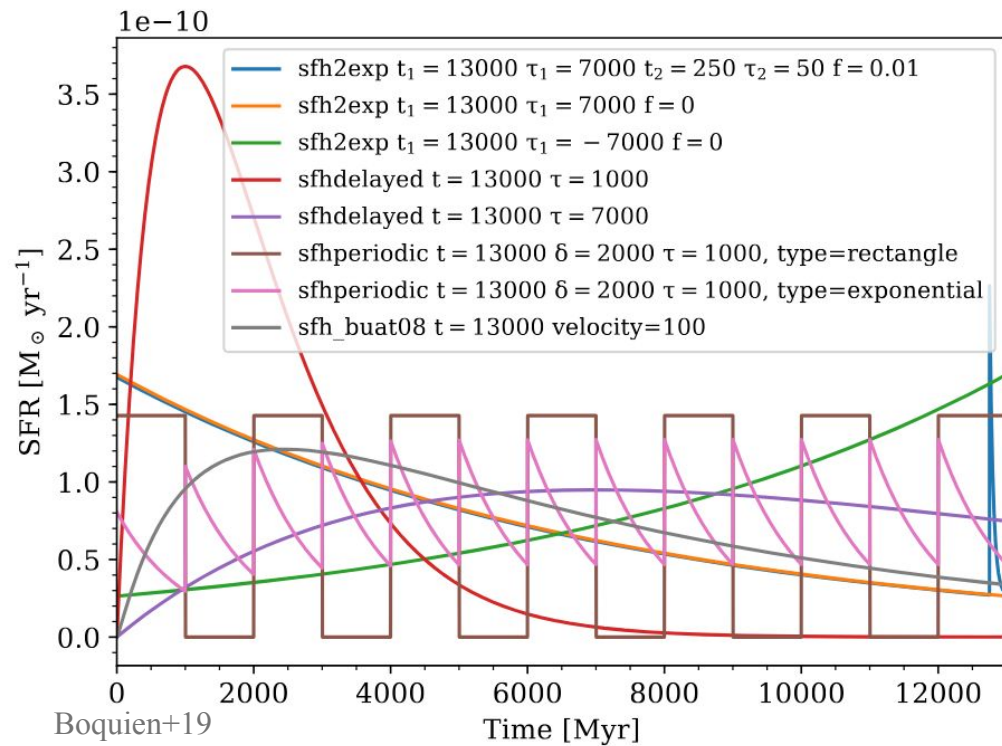


# Exploring past by studying present: galactic star formation histories

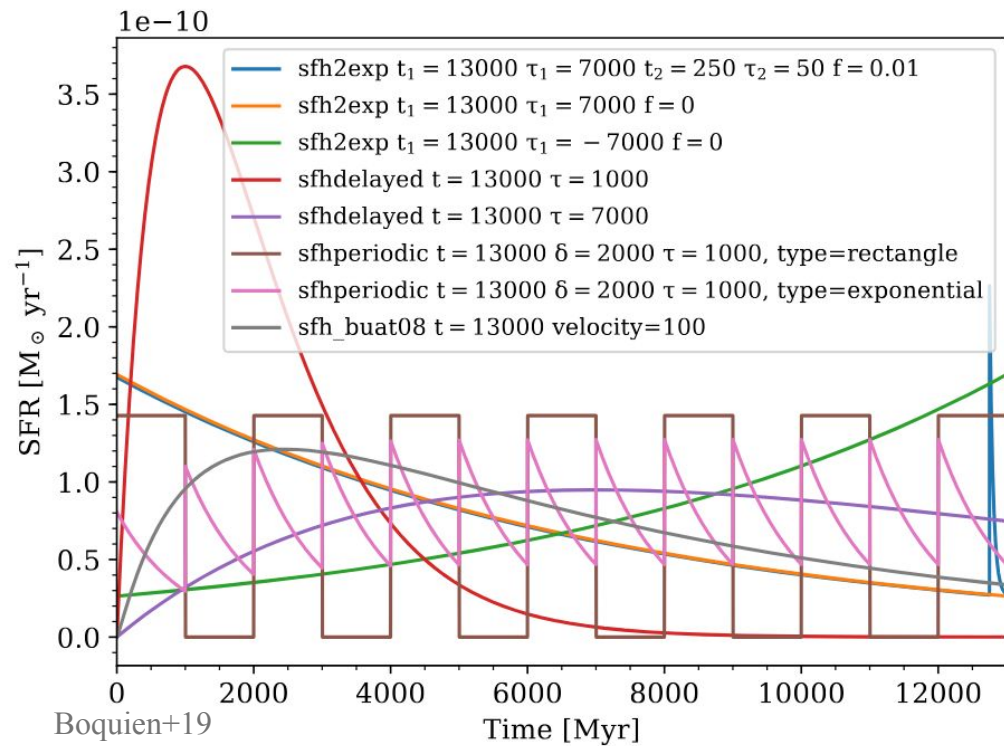
Krzysztof Lisiecki  
Narodowe Centrum Badań Jądrowych

## Parametric

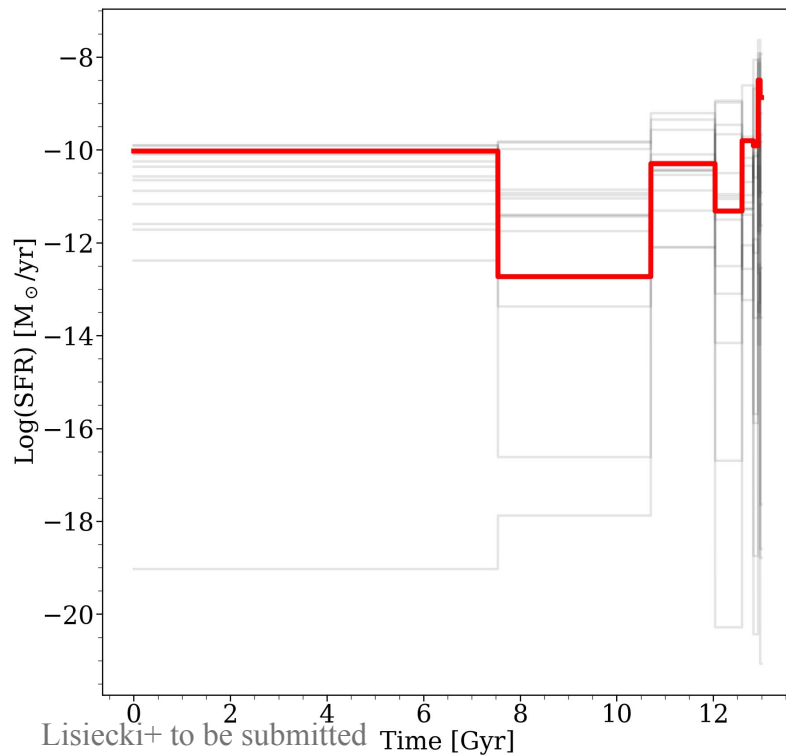


# Star formation histories

## Parametric

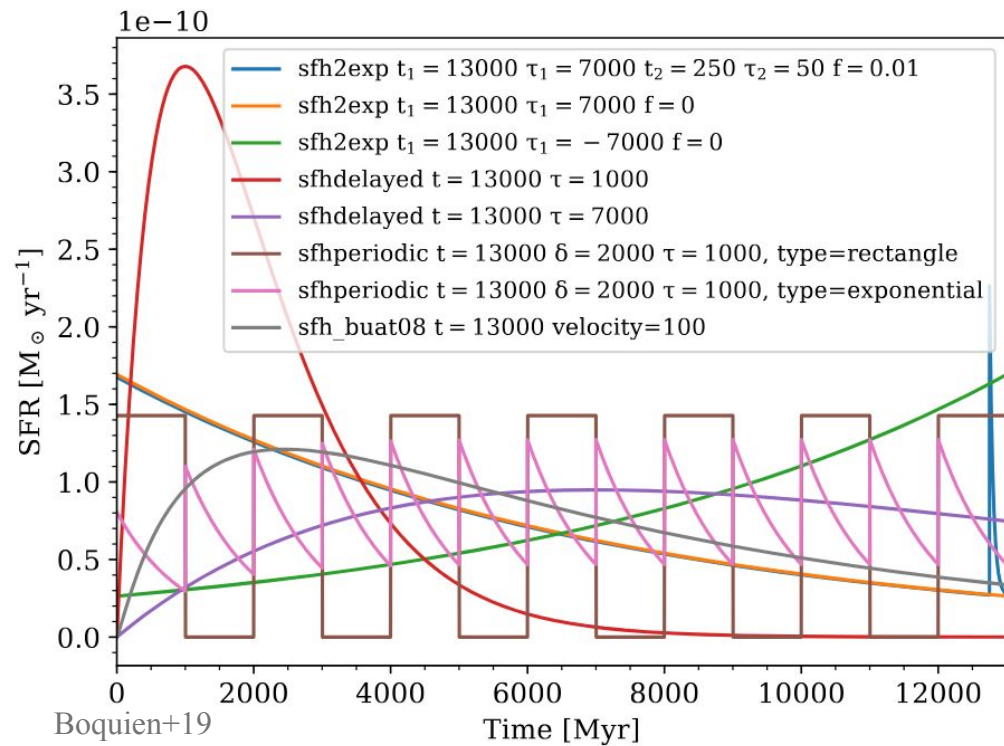


## Stochastic NonParametric

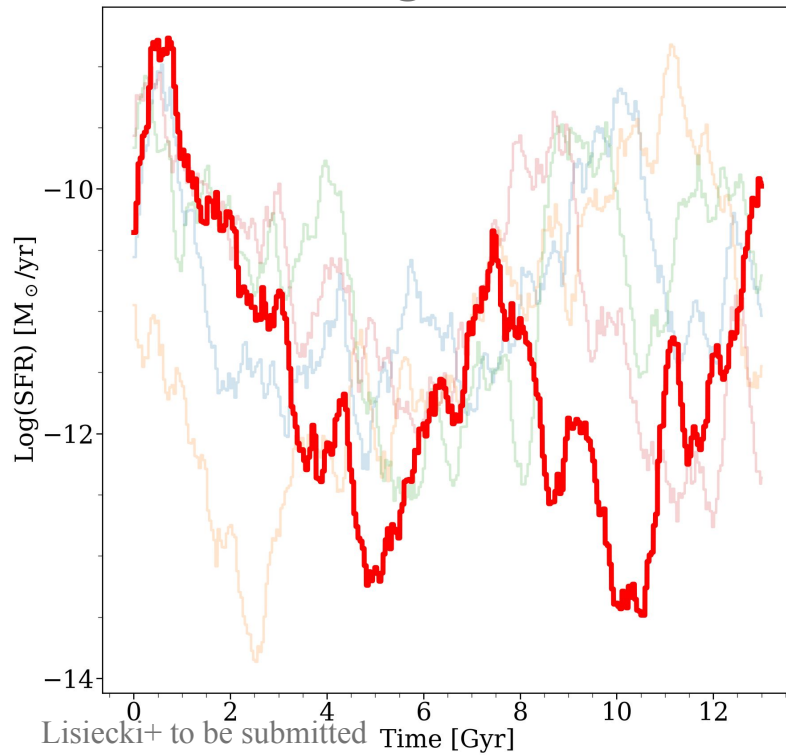


# Star formation histories

## Parametric



## Stochastic Regulator

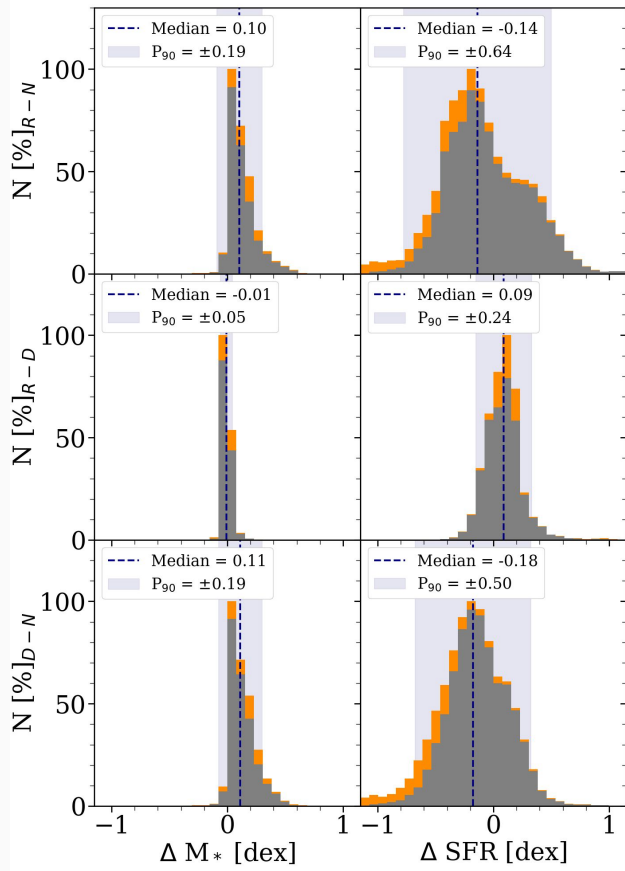


# Influence on the physical properties

Regulator - NonParametric

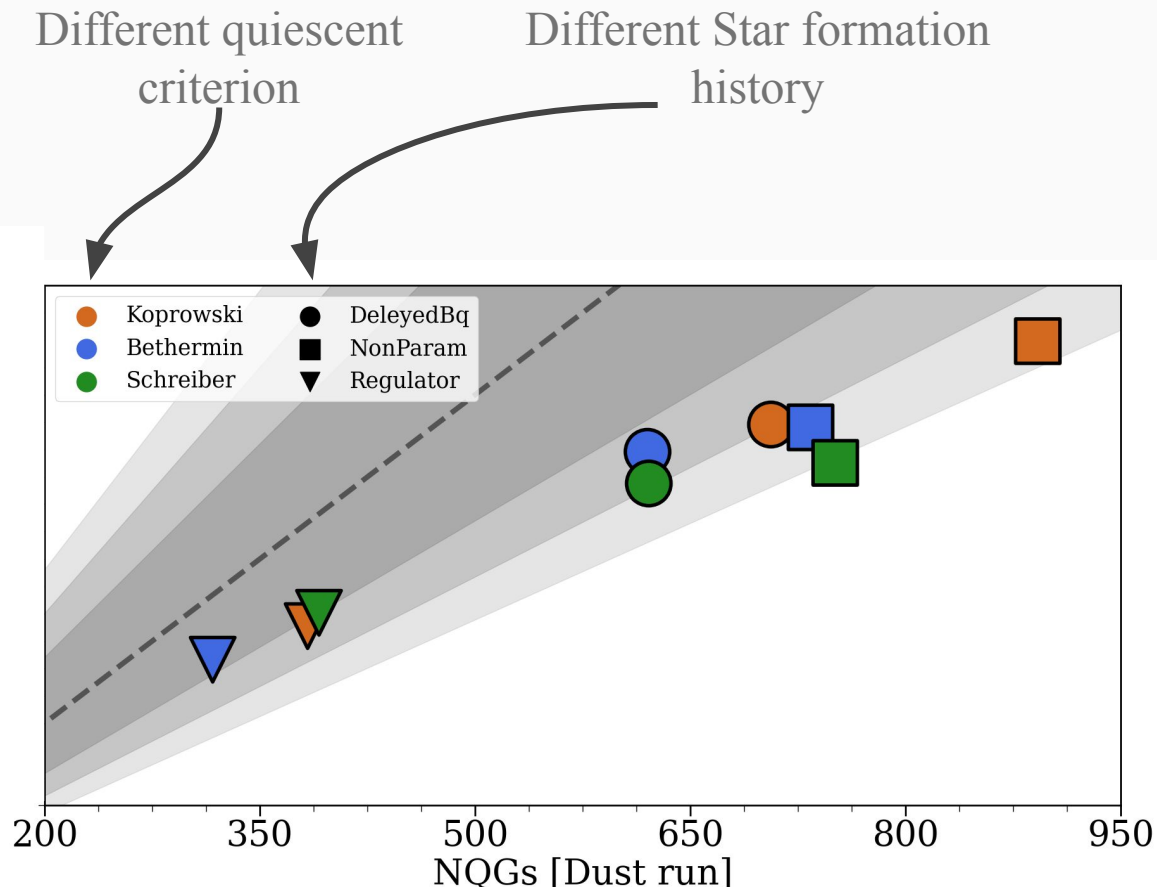
Regulator - Parametric

Parametric - NonParametric



- Stellar mass is preserved
- Star formation rate is consistent up to  $\sim 0.7$  dex
- Star formation history has an impact on the results

# Quenched galaxies



- Star formation history has stronger influence on quiescent sample size than selection criterion