

Conclusion

- ▶ We were able to reconstruct the formation history
 - ▶ For multiple halo realizations
 - ▶ With a single finite mixture model
 - ▶ With good accuracy on a 2x2 grid
 - ▶ Relatively quickly
 - ▶ Equally well for large and small values of π_j
 - ▶ With more data, more granular grids could be used
- ▶ We found confidence intervals and covariance matrices for the mixing proportions
 - ▶ Fisher information and n-out-of-n bootstrapping produced nearly identical results

Future work

- ▶ Adaptive partitioning of mass and time since accretion
- ▶ Mixing components from smoothed metallicity curves