MNRAS 000, 1–1 (2020) Preprint October 14, 2022 Compiled using show your work!/MNRAS LATEX style file v3.0

The influence of massive early merger events on the chemo-dynamics of galaxy discs

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Accepted XXXX . Received XXXX; in original form XXXX

ABSTRACT
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Key words:
Galaxy: structure — Galaxy: evolution — Galaxy: kinematics and dynamics — galaxies: formation — Galaxy: disk — methods: numerical

1 INTRODUCTION

2 METHODS

3 RESULTS

Not sure, we get a high res version done until this paper will be submitted... Let's try g8.26e11

3.1 some different elements [X/Fe] vs. [Fe/H]

do different elements give us insight into different formation epochs of the MW? detailed galactic archeology is left for future work.

3.2 relative contribution of different enrichment channels in L* galaxies: SNII vs. AGB vs. SNIa

4 CONCLUSION

Our results are summarized as follows:

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ACKNOWLEDGMENTS

TB's contribution to this project was made possible by funding from the Carl Zeiss Foundation. TB gratefully acknowledges the Gauss Centre for Supercomputing e.V. (www.gauss-centre.eu) for funding this project by providing computing time on the GCS Supercomputer SuperMUC at Leibniz Supercomputing Centre (www.lrz.de). This research was carried out on the High Performance Computing resources at New York University Abu Dhabi. This research made use of the PYNBODY Pontzen et al. (2013) package to analyze the simulations and used the PYTHON package MATPLOTLIB (Hunter 2007) to display all figures in this work. Data analysis for this work made intensive use of the PYTHON library SciPy (Jones et al. 01), in particular NumPy and IPython (Walt et al. 2011; Pérez & Granger 2007). The article has been typeset using showyourwork! by Luger et al. (2021).

References

Hunter J. D., 2007, Computing In Science & Engineering, 9, 90
Jones E., Oliphant T., Peterson P., et al., 2001–, SciPy: Open source scientific tools for Python, http://www.scipy.org/
Luger R., Bedell M., Foreman-Mackey D., Crossfield I. J. M., Zhao L. L., Hogg D. W., 2021, arXiv e-prints, p. arXiv:2110.06271
Pérez F., Granger B. E., 2007, Computing in Science and Engineering, 9, 21
Pontzen A., Roškar R., Stinson G. S., Woods R., Reed D. M., Coles J., Quinn T. R., 2013, pynbody: Astrophysics Simulation Analysis for Python
Walt S. v. d., Colbert S. C., Varoquaux G., 2011, Computing in Science and Engg., 13, 22

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