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Time-depenedent 1D treatment of convective core boundary mixing

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ABSTRACT

1. CONVECTIVE CORE BOUNDARY MIXING

Evan

1.1. *Dissipation balanced convective penetration*

1.2. *Stiff boundary convective overshooting*

2. EVOLUTIONARY PREDICTIONS

Cole & Mathias

3. COMPARISON WITH OBSERVATIONS

Cole & ??

4. DISCUSSION & CONCLUSIONS

Matteo, Evan, Mathias, & Cole

1. What core burning phases is this important for? When is this reasonable?
2. 9 & 15 Msun evolution w/ & w/o penetration to TAMS – then evolve consistently through post-MS
3. How does this impact compactness of a remnant

(Luger et al. 2021).

REFERENCES

Luger, R., Bedell, M., Foreman-Mackey, D., et al. 2021, arXiv e-prints, arXiv:2110.06271. https://arxiv.org/abs/2110.06271