Evan H. Anders' Publications List

* - This paper was led by someone I mentor
† - I was a co-first-author on this paper

Peer-Reviewed Journal Articles

2022   *18   Kaufman, E.; Lecoanet, D.; **Anders, E.H.**; Brown, B.P.; Vasil, G.M.; Oishi, J.S.; and Burns, K.J. Accepted for publication in MNRAS.
The Stability of Prendergast Magnetic Fields

*17   Fuentes, J.R.; Cumming, A.; **Anders, E.H.**. Submitted to PRF. (ArXiv).
Layer formation in a stably-stratified fluid cooled from above. Towards an analog for Jupiter and other gas giants.

†16   Fraser, A.E.; Joyce, M.; **Anders, E.H.**; Tayar, J.; Cantiello, M. submitted to ApJ. (ArXiv).
Observed Extra Mixing Trends in Red Giants are Reproduced by the Reduced Density Ratio in Thermohaline Zones.

15   Jermyn, A.S.; **Anders, E.H.**; Lecoanet, D.; and Cantiello, M. ApJS 262, 19.
An Atlas of Convection in Main Sequence Stars.

14   Jermyn, A.S.; **Anders, E.H.**; Lecoanet, D.; and Cantiello, M. ApJ 929, 182.
Convective Penetration in Early-Type Stars

13   **Anders, E.H.**; Jermyn, A.S.; Lecoanet, D.; Fraser, A.E.; Cresswell, I.G.; Joyce, M.; and Fuentes, J.R. ApJL 928, L10.
Schwarzschild and Ledoux are equivalent on evolutionary timescales

12   Jermyn, A.S.; **Anders, E.H.**; and Cantiello, M. ApJ 926, 221.
A Transparent Window into Early-Type Stellar Variability

11   **Anders, E.H.**; Jermyn, A.S.; Lecoanet, D.; and Brown, B.P., ApJ 926, 169.
Stellar convective penetration: parameterized theory and dynamical simulations

2021   *10   O'Connor, L.; Lecoanet, D.; and **Anders, E.H.**, PRF 6, 093501.
Marginally-Stable Thermal Equilibria of Rayleigh-Bénard Convection

9   Lecoanet, D.; Cantiello, M.; **Anders, E.H.**; Quataert, E.; Couston, L.; Bouffard, M.; Favier, B.; and Le Bars, M., MNRAS 508, 1, 132-143.
Surface Manifestation of Stochastically Excited Internal Gravity Waves

8   Van Kooten, S.J.; **Anders, E.H.**; and Cranmer, S.R, ApJ 913, 69.
A Refined Model of Convectively-Driven Flicker in Kepler Light Curves

7   Oishi, J.S.; Burns, K.J.; Clark, S.E.; **Anders, E.H.**; Brown, B.P.; Vasil, G.M.; and Lecoanet, D, JOSS 6(62), 3079.
eigentools: A Python package for studying eigenvalueproblems with an emphasis on stability

2020   6   **Anders, E.H.**; Vasil, G.M.; Brown, B.P.; and Korre, L., PRF 5, 083501.
Convective dynamics with mixed temperature boundary conditions: why thermal relaxation matters and how to accelerate it

2019   5   **Anders, E.H.**; Lecoanet, D.; and Brown, B.P., ApJ 884, 65.
Entropy Rain: Dilution and Compression of Thermals in Stratified Domains

4 **Anders, E.H.**; Manduca, C.M.; Brown, B.P.; Oishi, J.S.; Vasil, G.M., ApJ 872, 2.
Predicting the Rossby Number in Convective Experiments

2018   3 **Anders, E.H.**; Brown, B.P; and Oishi, J. S., PRF 3, 083502.
Accelerated evolution of convective simulations

2017   2 **Anders, E.H.** and Brown, B.P., PRF 2, 083501.
Convective heat transport in stratified atmospheres at low and high Mach number

2016   1 Karki, S.; Tuyenbayev, D.; Kandhasamy, S.; Abbott, B.P.; Abbott, T.D.; **Anders, E.H.**; Berliner, J.; Betzwieser, J.; Cahillane, C.; Canete, L.; Conley, C.; Daveloza, H.P.; De Lillo, N.; Gleason, J.R.; Goetz, E.; Izumi, K.; Kissel, J.S.; Mendell, G.; Quetschke, V; Rodruck, M.; Sachdev, S.; Sadecki, T.; Schwinberg, P.B.; Sottile, A.; Wade, M.; Weinstein, A.J., West, M.; and Savage, R.L., Review of Scientific Instruments 87, 114503.
The Advanced LIGO photon calibrators

Other Publications

2022   3 Featherstone, N. et. al. incl. **Anders, E.H.** Decadal Review Whitepaper.
The Puzzling Structure of Solar Convection: Window into the Dynamo

      2 **Anders, E.H.**; Jermyn, A.S.; Lecoanet, D.; Fuentes, J.R.; Korre, L.; Brown, B.P.; Oishi, J.S.; RNAAS 6, 41.
Convective Boundary Mixing Processes

      1 Jermyn, A.S.; **Anders, E.H.**; Lecoanet, D.; Cantiello, M.; and Goldberg, J.A.; RNAAS 6, 29.
Measures of Convective Efficiency