**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](https://arxiv.org/abs/2204.12643)).  *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](https://arxiv.org/abs/2204.08487)).  *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](https://iopscience.iop.org/article/10.3847/1538-4365/ac7cee).  *An Atlas of Convection in Main Sequence Stars.* |
|  | 14 | Jermyn, A.S.; **Anders, E.H.**; Lecoanet, D.; and Cantiello, M. [ApJ 929, 182](https://iopscience.iop.org/article/10.3847/1538-4357/ac5f08).  *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](https://iopscience.iop.org/article/10.3847/2041-8213/ac5cb5).  *Schwarzschild and Ledoux are equivalent on evolutionary timescales* |
|  | 12 | Jermyn, A.S.; **Anders, E.H.**; and Cantiello, M. [ApJ 926, 221](https://iopscience.iop.org/article/10.3847/1538-4357/ac4e89).  *A Transparent Window into Early-Type Stellar Variability* |
|  | 11 | **Anders, E.H.**; Jermyn, A.S.; Lecoanet, D.; and Brown, B.P., [ApJ 926, 169](https://iopscience.iop.org/article/10.3847/1538-4357/ac408d).  *Stellar convective penetration: parameterized theory and dynamical simulations* |
| 2021 | \*10 | O’Connor, L.; Lecoanet, D.; and **Anders, E.H.**, [PRF 6, 093501](https://journals.aps.org/prfluids/abstract/10.1103/PhysRevFluids.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](https://academic.oup.com/mnras/article/508/1/132/6366938).  *Surface Manifestation of Stochastically Excited Internal Gravity Waves* |
|  | 8 | Van Kooten, S.J.; **Anders, E.H.**; and Cranmer, S.R, [ApJ 913, 69](https://iopscience.iop.org/article/10.3847/1538-4357/abf7bf).  *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](https://joss.theoj.org/papers/10.21105/joss.03079).  *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](https://journals.aps.org/prfluids/abstract/10.1103/PhysRevFluids.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](https://iopscience.iop.org/article/10.3847/1538-4357/ab3644).  *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](https://iopscience.iop.org/article/10.3847/1538-4357/aaff61).  *Predicting the Rossby Number in Convective Experiments* |
| 2018 | 3 | **Anders, E.H.**; Brown, B.P; and Oishi, J. S., [PRF 3, 083502](https://journals.aps.org/prfluids/abstract/10.1103/PhysRevFluids.3.083502).  *Accelerated evolution of convective simulations* |
| 2017 | 2 | **Anders, E.H.** and Brown, B.P., [PRF 2, 083501](https://journals.aps.org/prfluids/abstract/10.1103/PhysRevFluids.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](https://aip.scitation.org/doi/10.1063/1.4967303).  *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](https://iopscience.iop.org/article/10.3847/2515-5172/ac5892).  *Convective Boundary Mixing Processes* |
|  | 1 | Jermyn, A.S.; **Anders, E.H.**; Lecoanet, D.; Cantiello, M.; and Goldberg, J.A.;  [RNAAS 6, 29](https://iopscience.iop.org/article/10.3847/2515-5172/ac531e).  *Measures of Convective Efficiency* |