

PUBLICATION LIST

(Citation numbers as of 10/31/2022 according to NASA ADS are quoted in *red*. In total, the accepted publications have 134 citations, 96 of which can be attributed to the main author papers.)

• Accepted (Main author)

- ★ “The Galactic Faraday sky 2020”,
S. Hutschenreuter et al. (*Astronomy and Astrophysics* / [arXiv:2102.01709](#)) (34)
- ★ “The Galactic Faraday depth sky revisited”,
S. Hutschenreuter, T. Enßlin (*Astronomy and Astrophysics* / [arXiv:1903.06735](#)) (40)
- ★ “The primordial magnetic field in our cosmic backyard”,
S. Hutschenreuter, S. Dorn, J. Jasche, F. Vazza, D. Paoletti, G. Lavaux, T. Enßlin (*Classical and Quantum Gravity* / [arXiv:1803.02629](#)) (22)

• Accepted (Contributing author)

- ★ “A method for reconstructing the Galactic magnetic field using dispersion of fast radio bursts and Faraday rotation of radio galaxies”,
A. Pandhi, **S. Hutschenreuter**, J. L. West, B. M. Gaensler, and A. Stock (*MNRAS* / [arXiv:2208.06417](#)) (0)
- ★ “NIFTy5: Numerical Information Field Theory”,
P. Arras; M. Baltac; T.A. Ensslin, P. Frank **S. Hutschenreuter** (*Astrophysics Source Code Library*, [ascl:1903.008](#)) (9)
- ★ “Determining the composition of radio plasma via circular polarization: the prospects of the Cygnus A hot spots”,
T. Enßlin, **S. Hutschenreuter**, G. Krishna (*JCAP* / [arXiv:1808.07061](#)) (2)
- ★ “NIFTy 3 - Numerical Information Field Theory - A Python framework for multicomponent signal inference on HPC clusters”,
T. Steininger, J. Dixit, P. Frank, M. Greiner, **S. Hutschenreuter**, J. Knollmüller, R. Leike, N. Porqueres, D. Pumpe, M. Reinecke, M. Sraml, C. Varady, T. Enßlin (*Annalen der Physik* / ([arXiv:1708.01073](#))) (19)
- ★ “The Galaxy in circular polarization: all-sky radio prediction, detection strategy, and the charge of the leptonic cosmic rays”,
T. Enßlin, **S. Hutschenreuter**, V. Vacca, N. Oppermann (*Physical Review D* / [arXiv:1706.08539](#)) (8)

• Submitted or in preparation

- ★ “Studying Bioluminescence Flashes with the ANTARES Deep Sea Neutrino Telescope”,
N. Reeb, **S. Hutschenreuter**, P. Zehetner, T. Ensslin, and the ANTARES Collaboration ([submitted to Limnology and Oceanography](#) / [arXiv:2107.08063](#))
- ★ “RMTable and PolSpectra: standards for reporting polarization and Faraday rotation measurements of radio sources”,
C. Van Eck, B. M. Gaensler, **S. Hutschenreuter**, et al. ([submitted to AAS](#))
- ★ “Disentangling the Galactic Faraday sky”,
S. Hutschenreuter, M. Haverkorn and T. Ensslin ([in prep.](#))