

# Publications & Communications

Etienne Bonnassieux

## 1 First-Author Refereed Papers

- SEP 2021 | Spectral analysis of spatially-resolved 3C295 (sub-arcsecond resolution) with the International LOFAR Telescope ([Bonnassieux et al. 2021](#))
- MAY 2020 | Decoherence in LOFAR-VLBI beamforming ([Bonnassieux et al. 2020](#))
- JUL 2018 | The variance of radio interferometric calibration solutions. Quality-based weighting schemes ([Bonnassieux et al. 2018](#))

## 2 Other Refereed Papers

- AUG 2021 | A&A: The resolved jet of 3C 273 at 150 MHz (accepted)
- AUG 2021 | A&A: Sub-arcsecond imaging with the International LOFAR Telescope I. Foundational calibration strategy and pipeline (accepted)
- JUN 2021 | A&A: Constraining the AGN duty cycle in the cool-core cluster MS 0735.6+7421 with LOFAR data ([Biava et al. 2021](#))
- FEB 2021 | A&A: Physical insights from the spectrum of the radio halo in MACS J0717.5+3745 ([Rajpurohit et al. 2021a](#))
- FEB 2021 | A&A: Understanding the radio relic emission in the galaxy cluster MACS J0717.5+3745: Spectral analysis ([Rajpurohit et al. 2021b](#))
- JAN 2021 | ApJ: The Coma Cluster at LOw Frequency ARray Frequencies. I. Insights into Particle Acceleration Mechanisms in the Radio Bridge ([Bonafede et al. 2021](#))
- NOV 2020 | subm. : LOFAR observations of galaxy clusters in HETDEX ([van Weeren et al. 2020](#))
- NOV 2020 | A&A. : A perfect power-law spectrum even at the highest frequencies: The Toothbrush relic([Rajpurohit et al. 2020](#))
- FEB 2019 | A&A. : The LOFAR Two-metre Sky Survey. II. First data release ([Shimwell et al. 2019](#))

### 3 Posters

JUN 2017 | [Broad Impact of Low-Frequency Observing](#). Poster on quality-based weighting scheme.

### 4 Conferences & Workshops

MAR 2021 | [6th LOFAR data school](#). Talk on direction-dependent calibration, organised hands-on workshop.

MAR 2021 | [RGCW Meeting](#). Gave talk on progress of NenuFAR Cosmic Filaments & Magnetic Fields Pilot Surveys.

APR 2018 | Invited lecturer at [the first Italian LOFAR School](#). Organised a hands-on workshop on direction-dependent calibration, and helped tutor in the workshops of colleagues.

SEP 2018 | [5th LOFAR data school](#). Talk on direction-dependent calibration, tutoring hands-on tutorial.

DEC 2017 | [SALF IV](#). Gave talk on quality-based weighting schemes.

OCT 2016 | [3GC4](#). Organised hands-on workshop on [using pyrap](#), a python wrapper for casacore. This allows scientists to interact with interferometric datasets in an efficient manner.

### References

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- Bonnassieux, E., Tasse, C., Smirnov, O., & Zarka, P. 2018, A&A, 615, A66
- Rajpurohit, K., Brunetti, G., Bonafede, A., et al. 2021a, A&A, 646, A135
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- Rajpurohit, K., Wittor, D., van Weeren, R. J., et al. 2021b, A&A, 646, A56
- Shimwell, T. W., Tasse, C., Hardcastle, M. J., et al. 2019, A&A, 622, A1
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