

---

# **LBWG memo 27**

## **difmap and wsclean imaging**

Neal Jackson/Etienne Bonnassieux 20.7.20

---

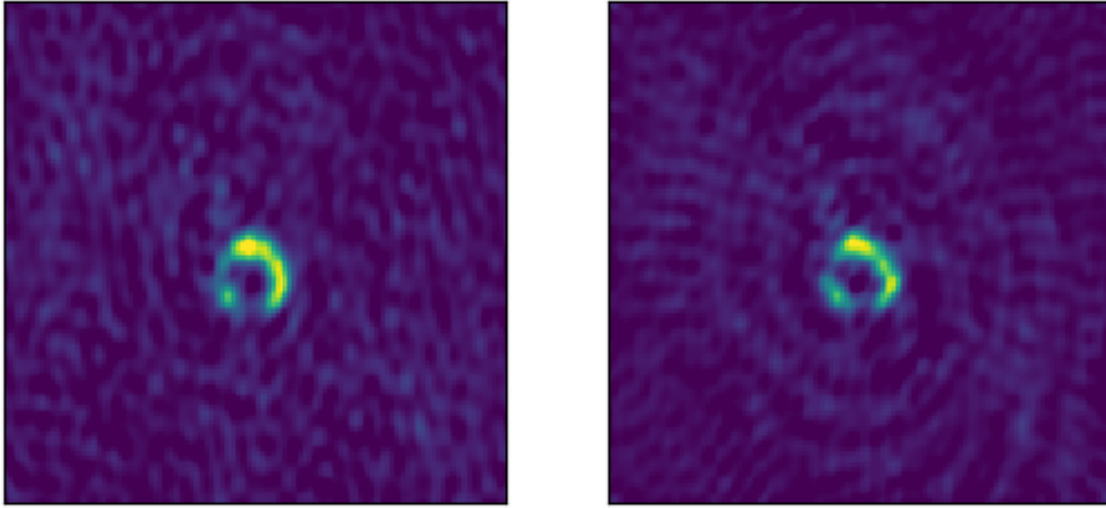


Figure 1: Difmap(L) and wsclean (R) images of the same dataset.

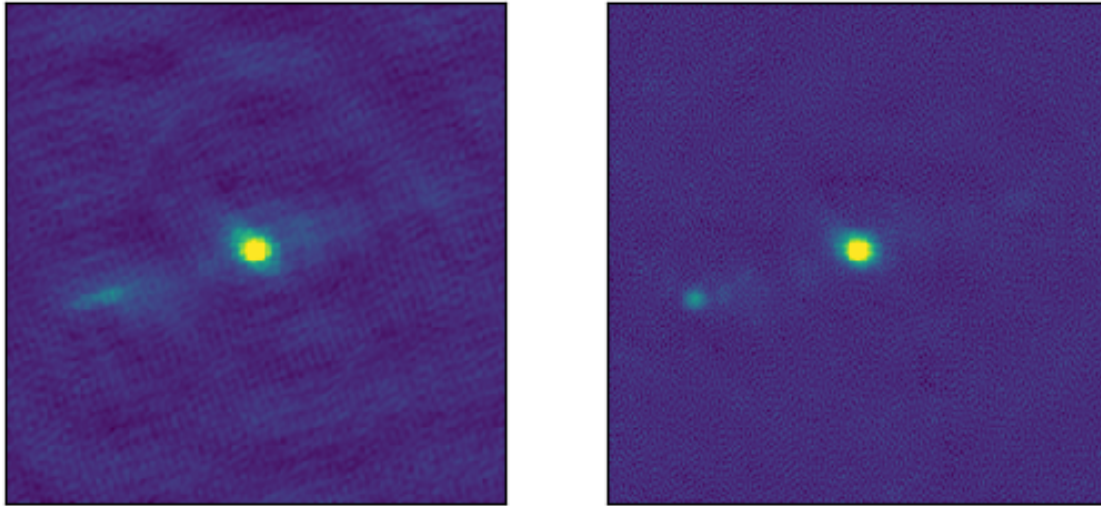


Figure 2: Difmap(L) and wsclean (R) images of the same dataset from the P205 field.

Some simple tests were done to check that the performance of imaging in `difmap` and `wsclean` is similar, due to suspicions that these might be different.

Selfcalibrated data on the gravitational lens MG0751+2716 was first used. `difmap` with default (uniform) weighting was used to make an image. `wsclean` was run with the same nominal weighting, and the restoring beam was set to be the same as the `difmap` beam. The resulting images are almost identical (Fig. ??).

Some data from field P205 (source S2510=135146+551819) was also imaged with both packages in the same way. Again (Fig. ??) there is very little difference. The restoring beam is the same, but the number of clean iterations is different.

Conclusion: there is no evidence that `difmap` and `wsclean` give significantly different results for long-baseline LOFAR data.