Multifrequency Imaging of Elias27
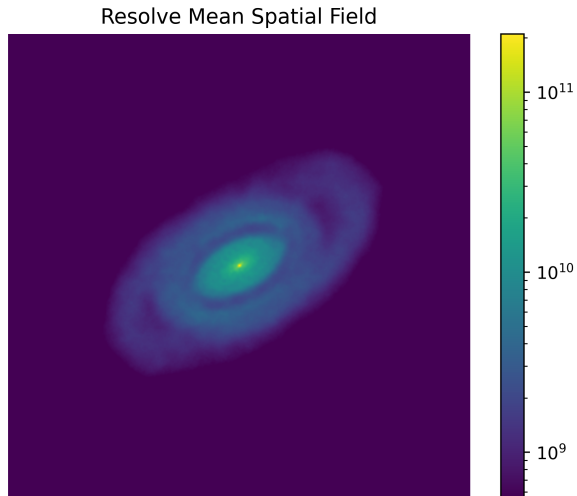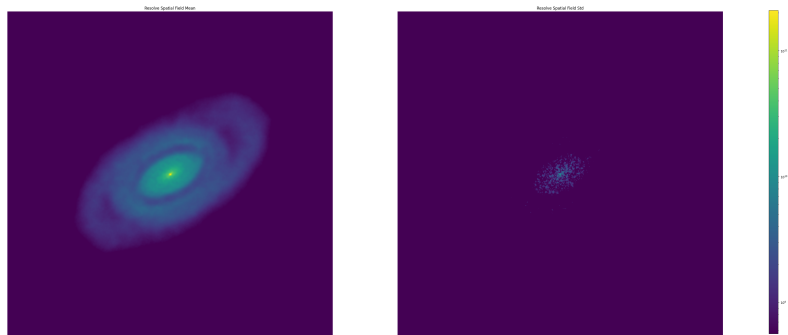
Vishal Johnson

January 27, 2025

Reconstruction of Elias27
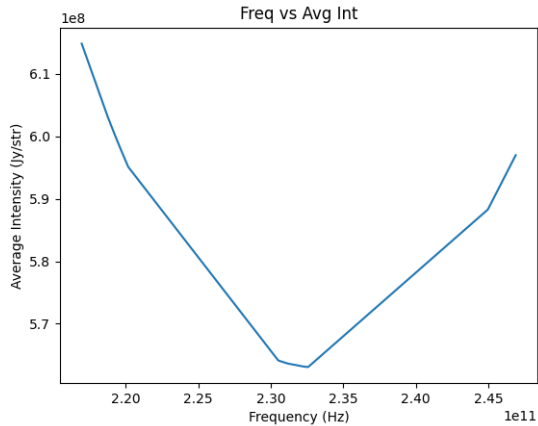

Resolve Mean Spatial Field
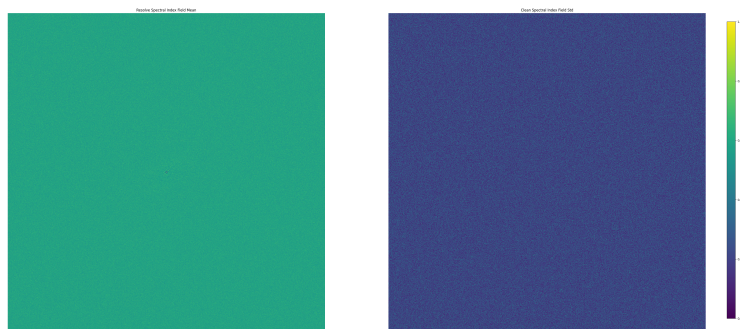
Mean and Standard Deviation

Mean (left) and Standard Deviation (right) of the final iteration of resolve reconstruction.

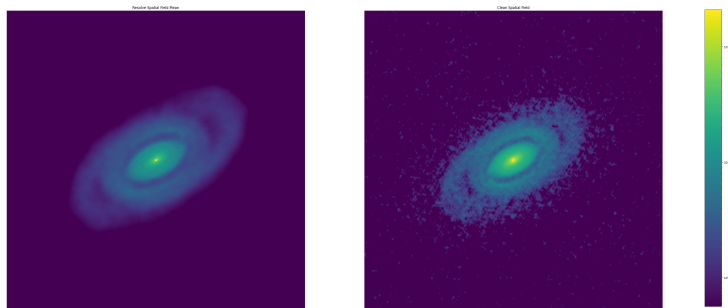# Frequency Behaviour (Intensity vs Frequency)

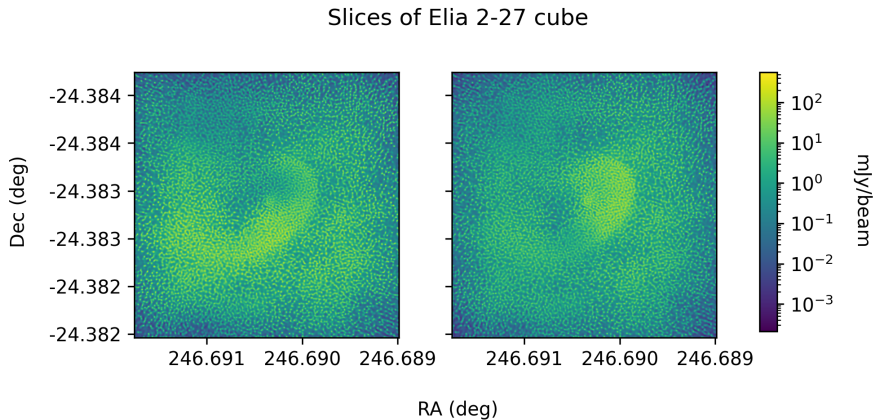# Frequency Behaviour (Spectral Index Map)

Mean (left) and Standard Deviation (right) of the final iteration of the spectral index map of resolve reconstruction.

Resolve compared with CLEAN

Resolve (left) and CLEAN (right) algorithms compared with similar colour scaling.

Reconstruction of CO slices (WORK IN PROGRESS)

Slices of Elia 2-27 cube

Slice 2.05 km/s (left) and slice 1.35 km/s (right) of CO reconstruction of Elias27.

Thanks! Any Questions?