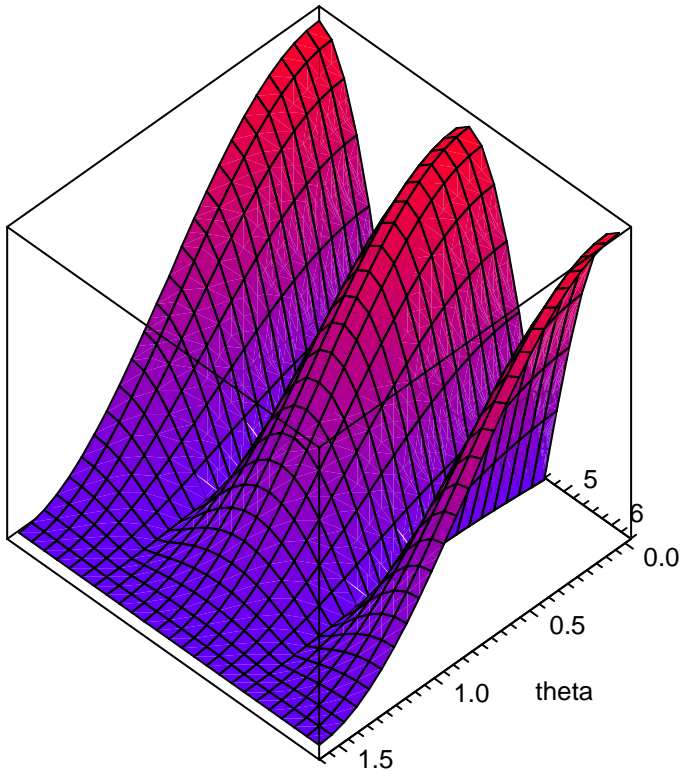


# LOFAR CS1

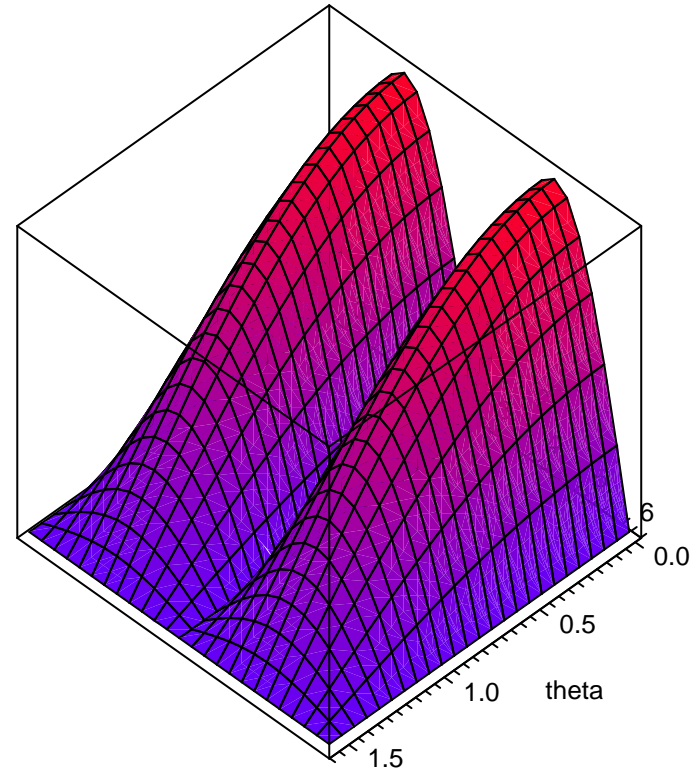
Calibration and Imaging

(cont.)

# Droopy Dipole Beam



$|E_\theta|$

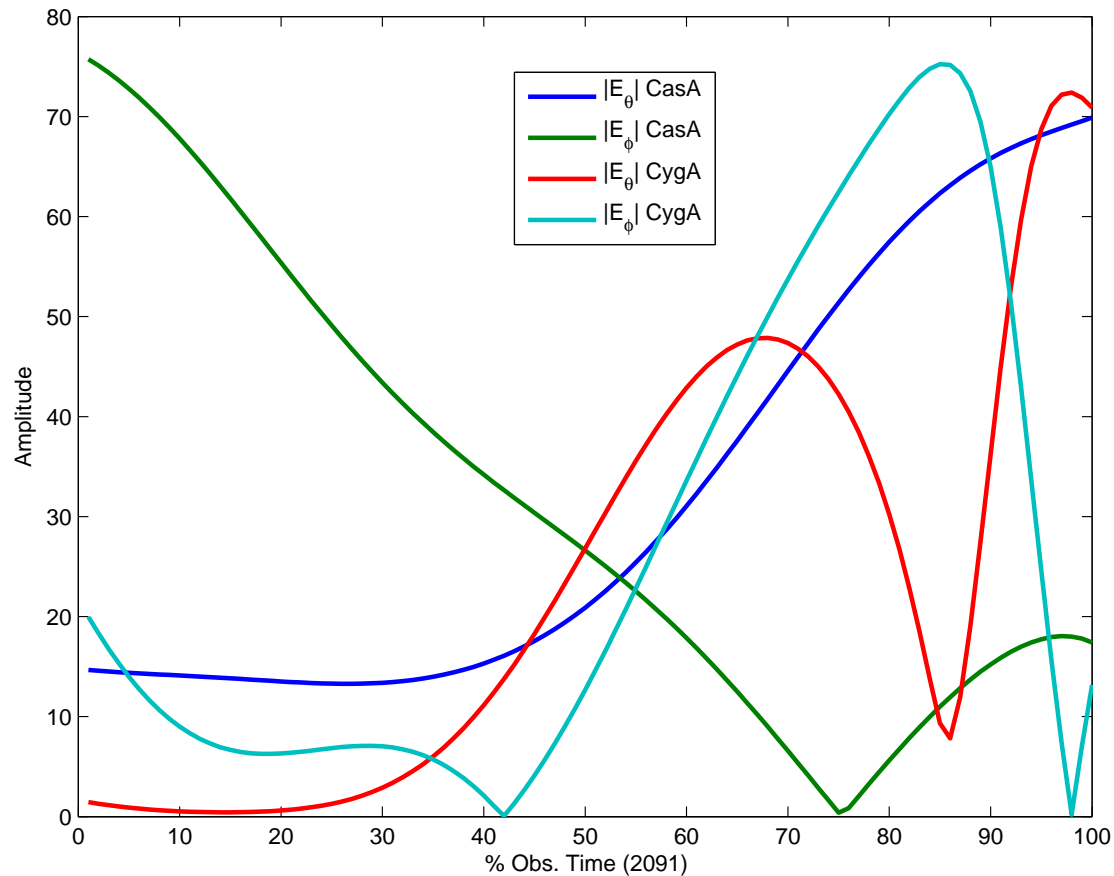


$|E_\phi|$

# Droopy Dipole Beam...

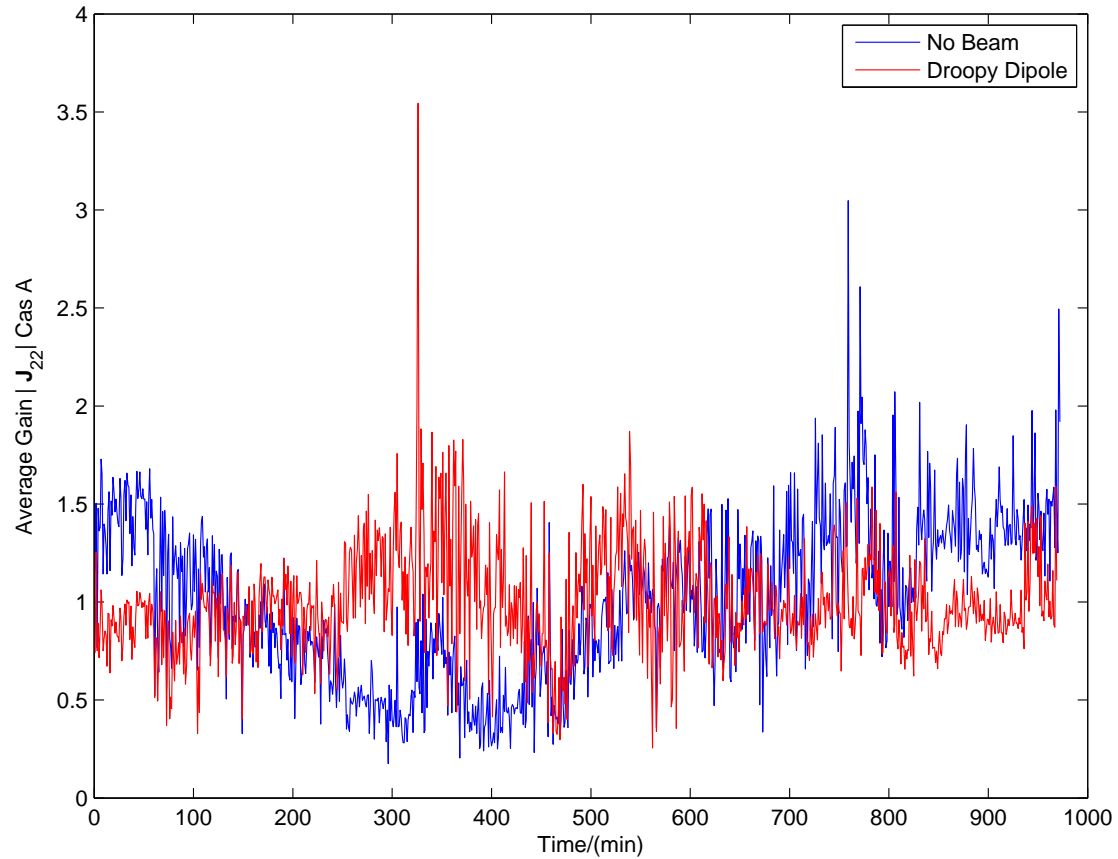
$$\begin{bmatrix} V_x \\ V_y \end{bmatrix} = \begin{bmatrix} \mathbf{E}_\theta(\gamma, \beta) & \mathbf{E}_\phi(\gamma, \beta) \\ \mathbf{E}_\theta(\gamma, \beta - \pi/2) & \mathbf{E}_\phi(\gamma, \beta - \pi/2) \end{bmatrix} \times \begin{bmatrix} \Lambda_1 \\ \Lambda_2 \end{bmatrix}$$

$\gamma = \pi/2 - \theta$  for elevation,  $\beta = \phi - \pi/4$  for azimuth



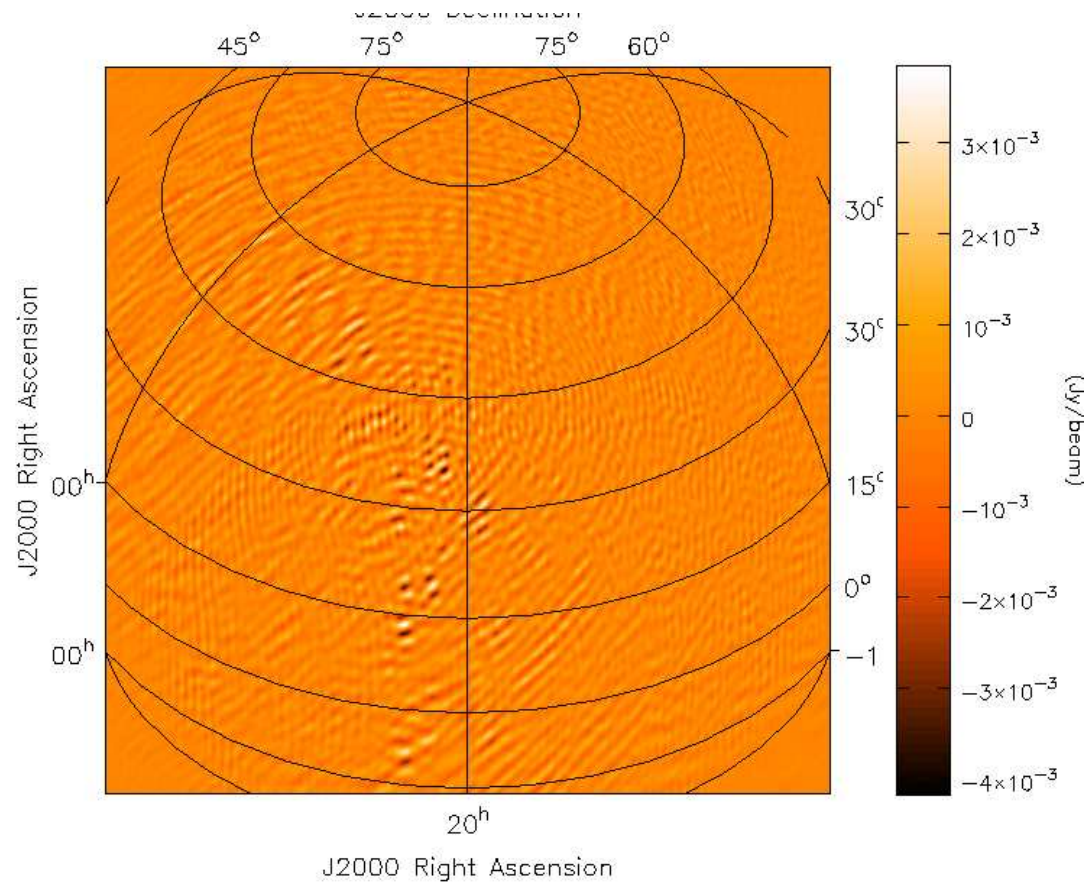
L2007\_02091

# Droopy Dipole Beam...



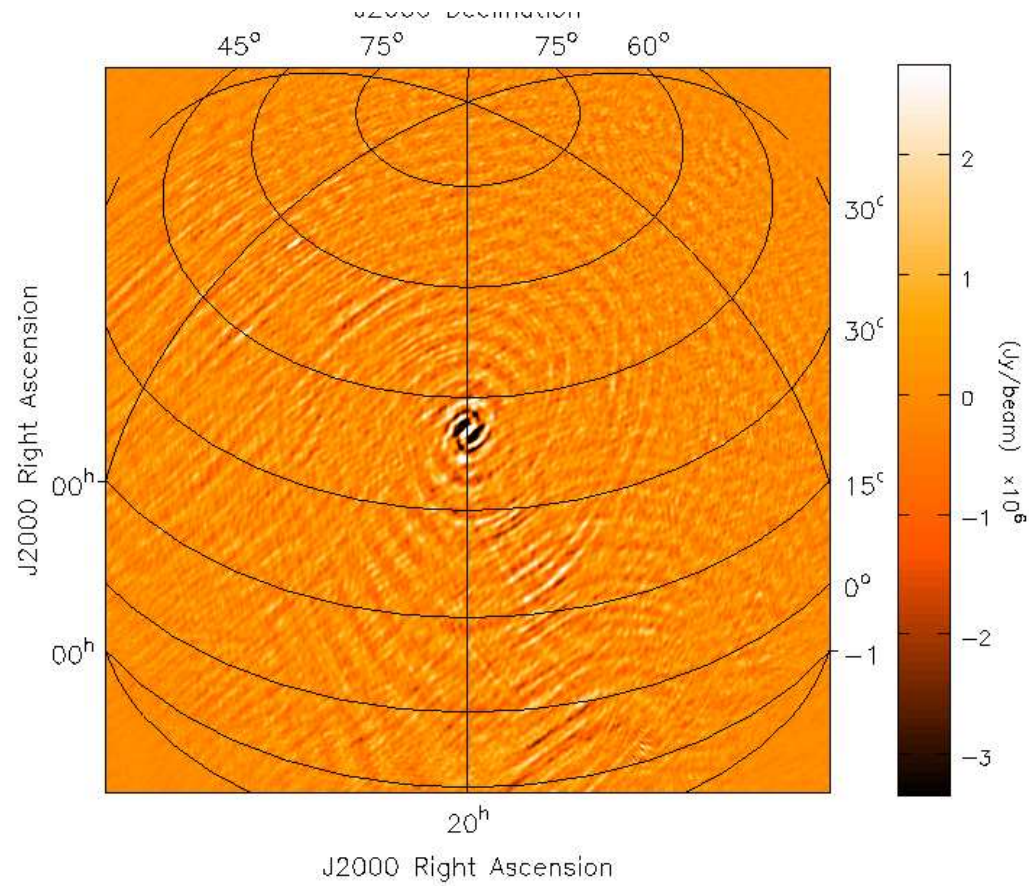
$J_{22}$  solution with beam L2007\_1810

# CygA



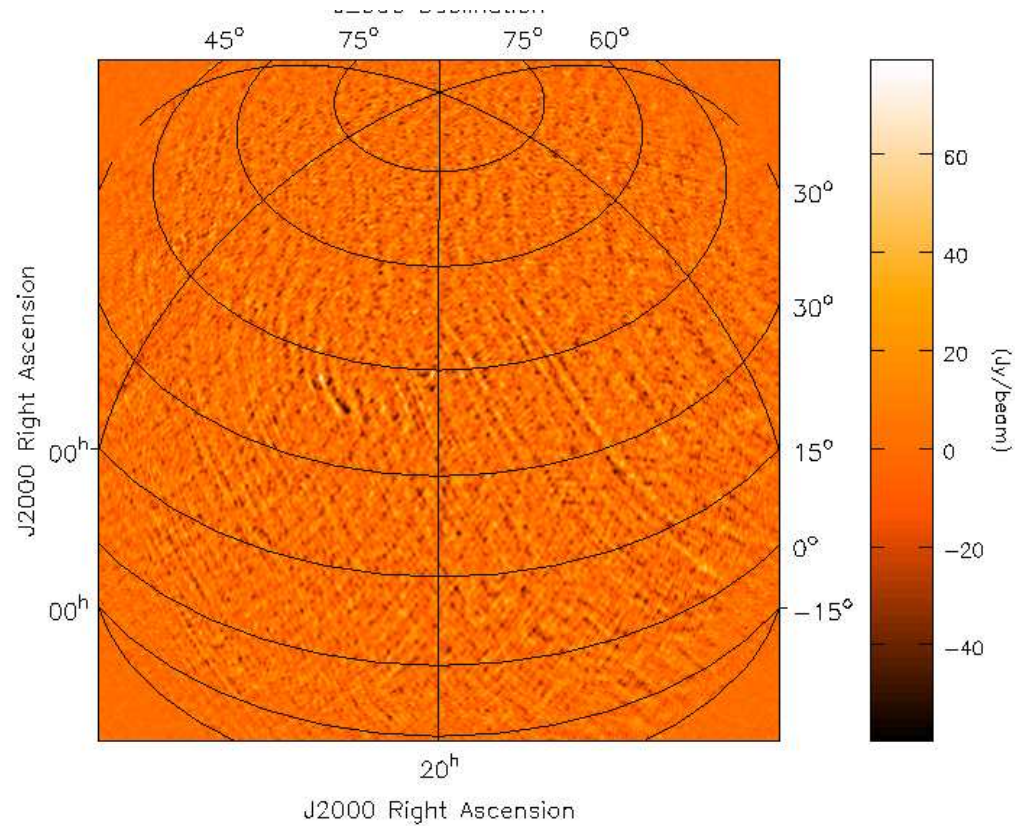
L2007\_02091, Observed

# CygA



L2007\_02091, Corrected by G Jones

# CygA



L2007\_02092, CygA, CasA peeled simultaneously