

PAON4 Geometry

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11 June 2015

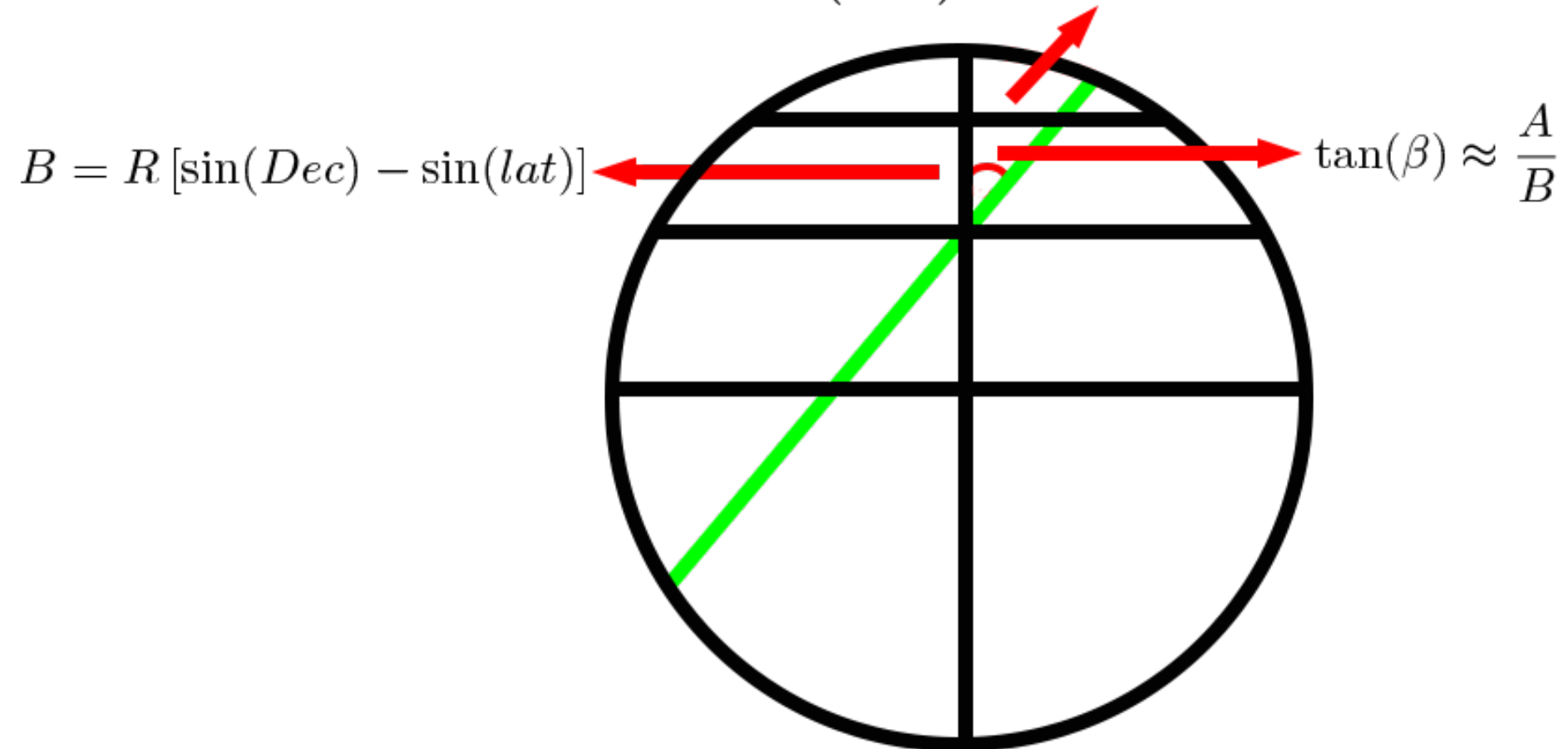
Pictures of two data set

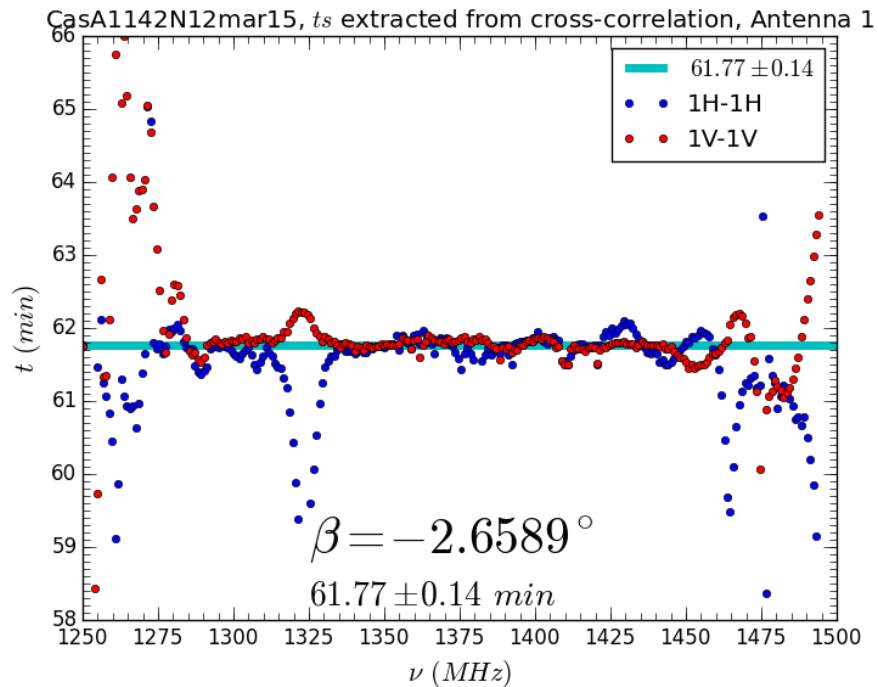
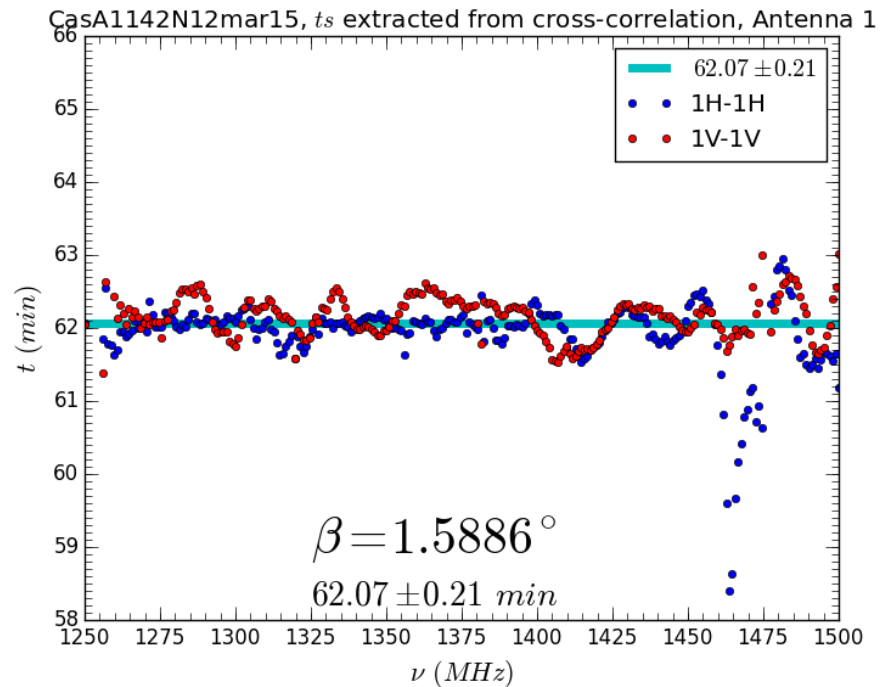
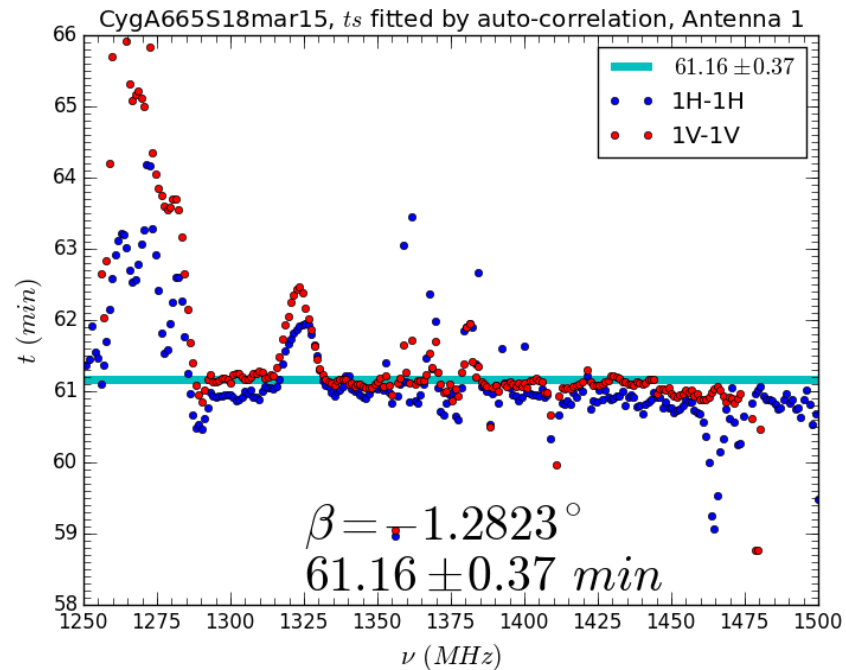
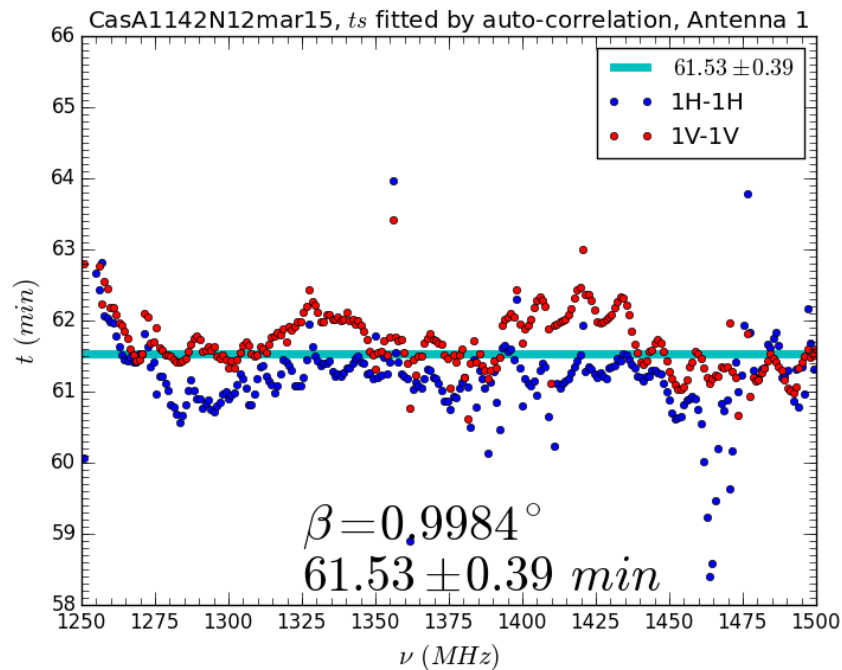
- CasA1142N12mar15
- CygA665S18mar15
- Different sources: CasA, CygA
- Different days: 12mar15, 18mar15

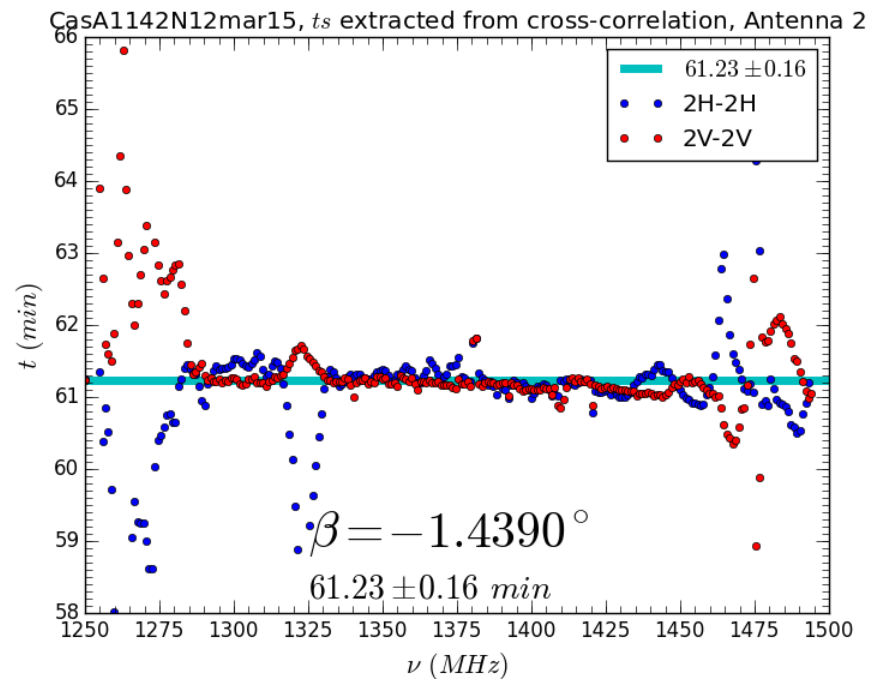
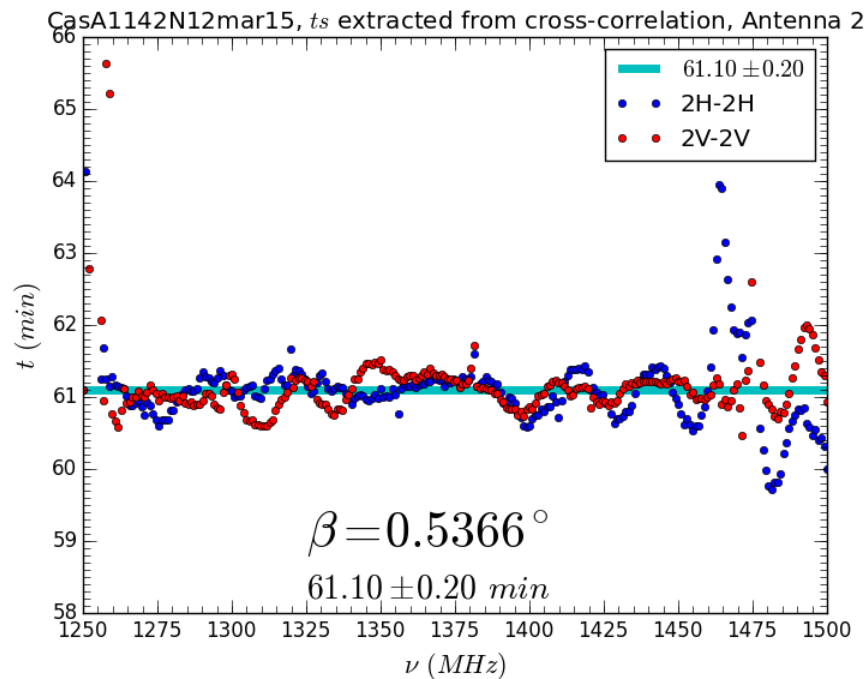
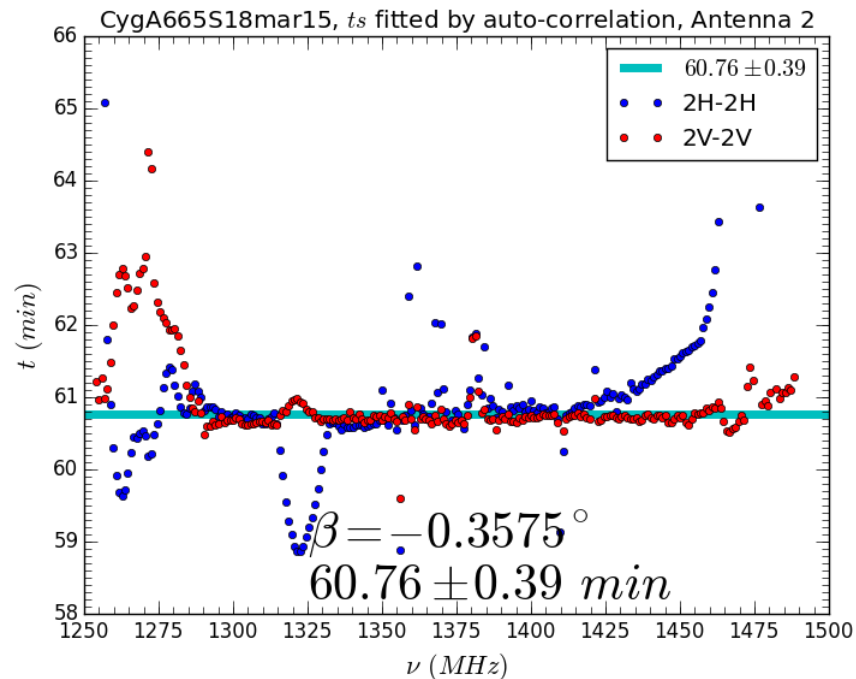
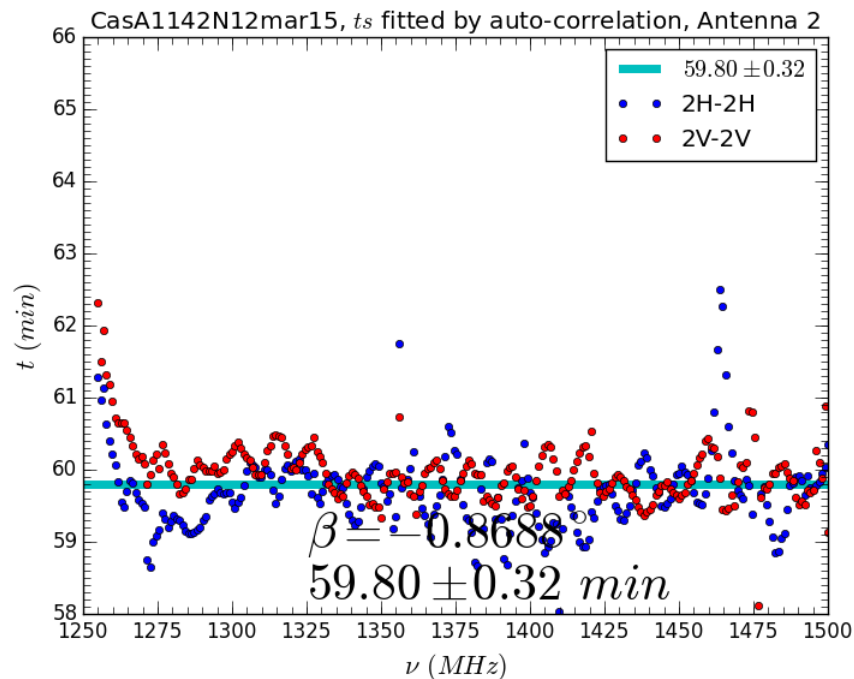
Antenna pointing

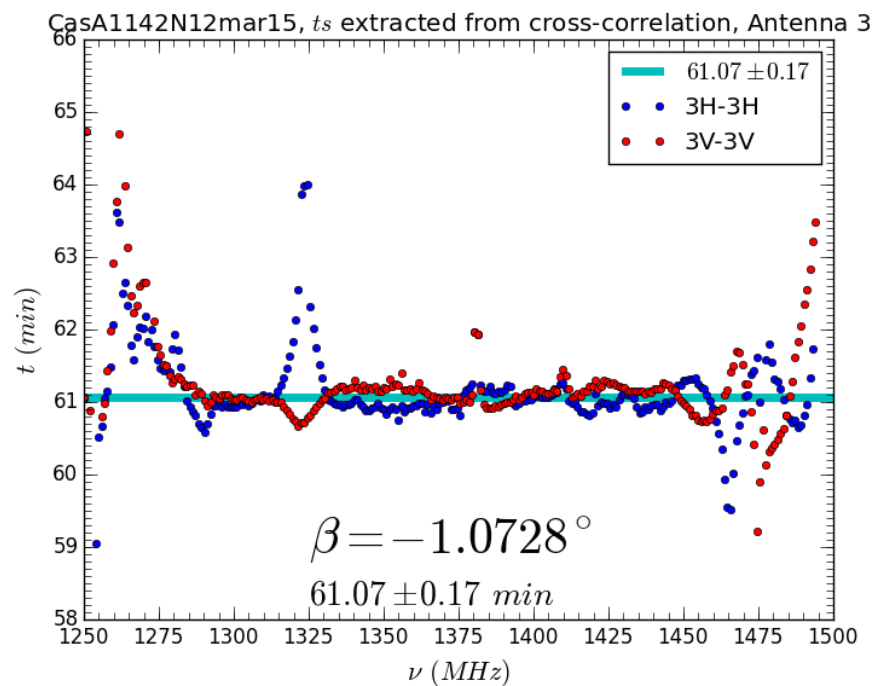
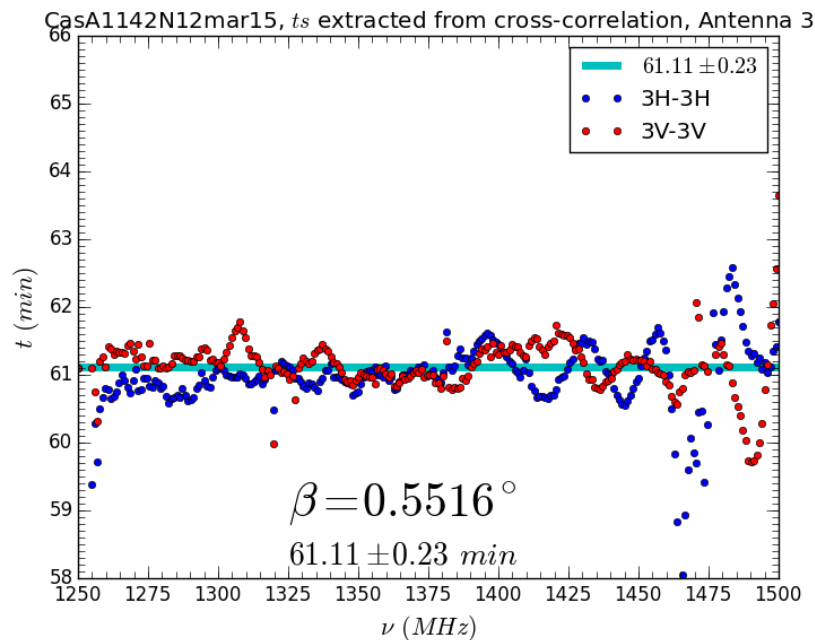
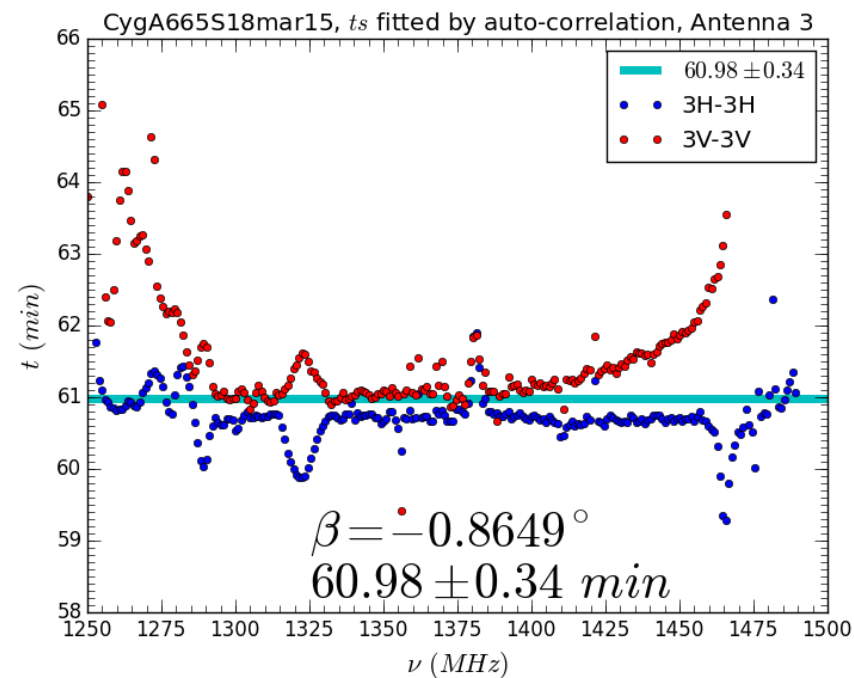
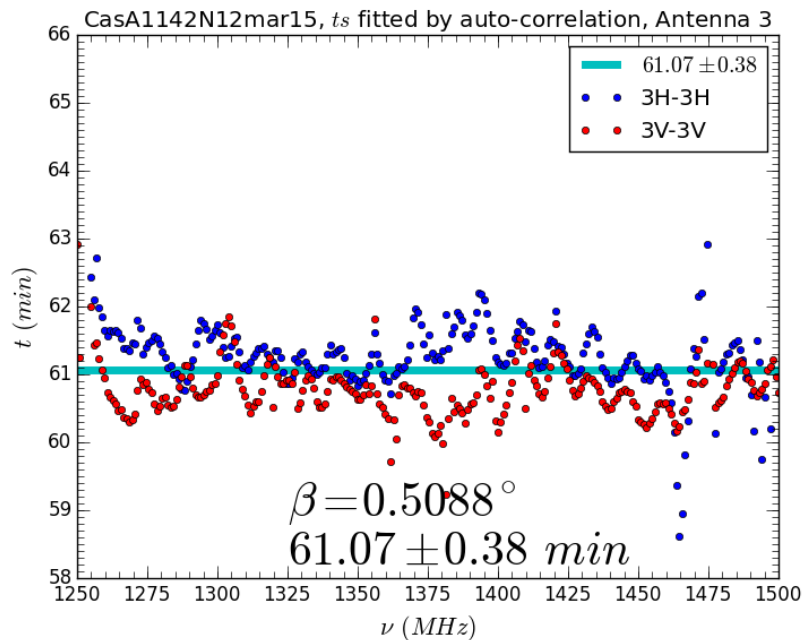
Angle between the local meridian and the North-South rotation axis of the antenna

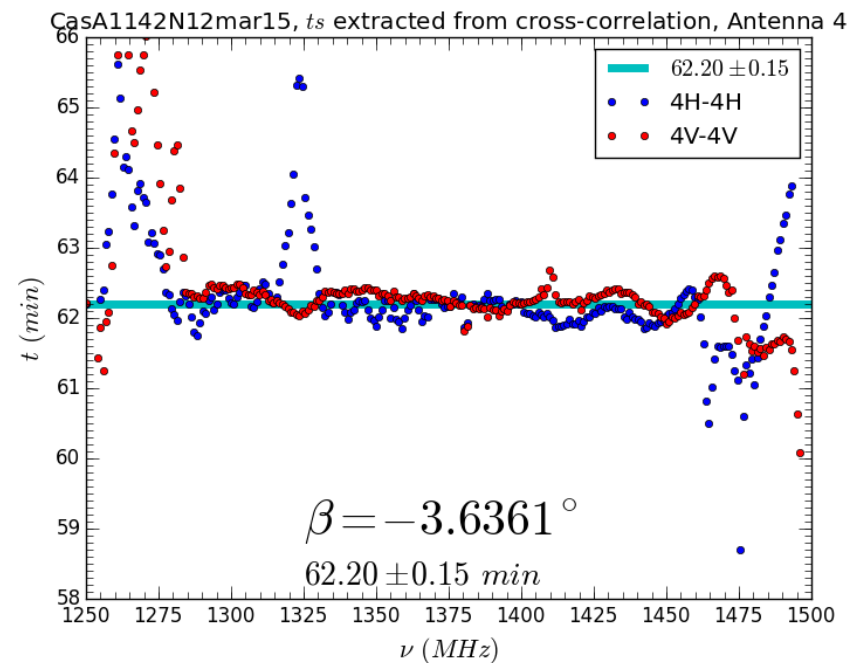
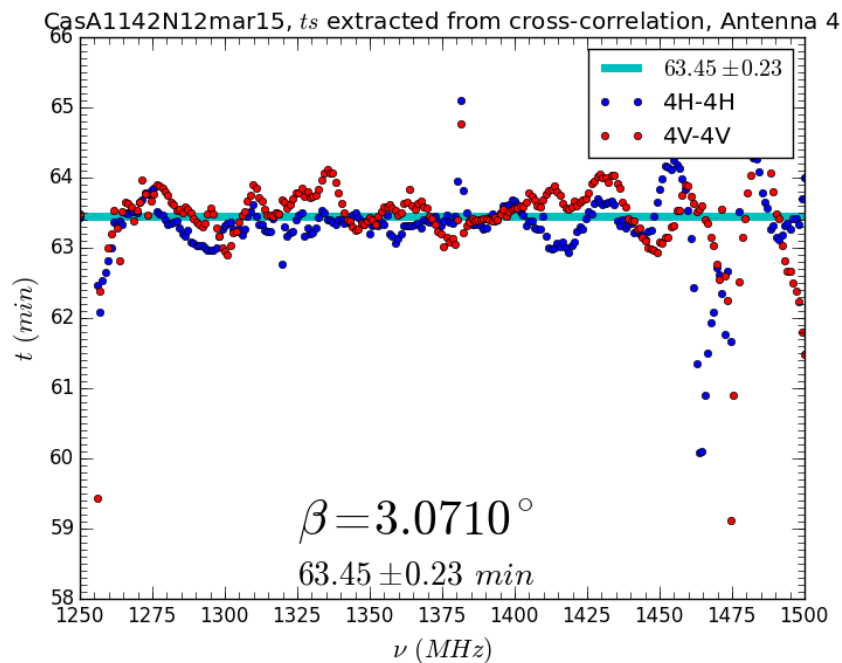
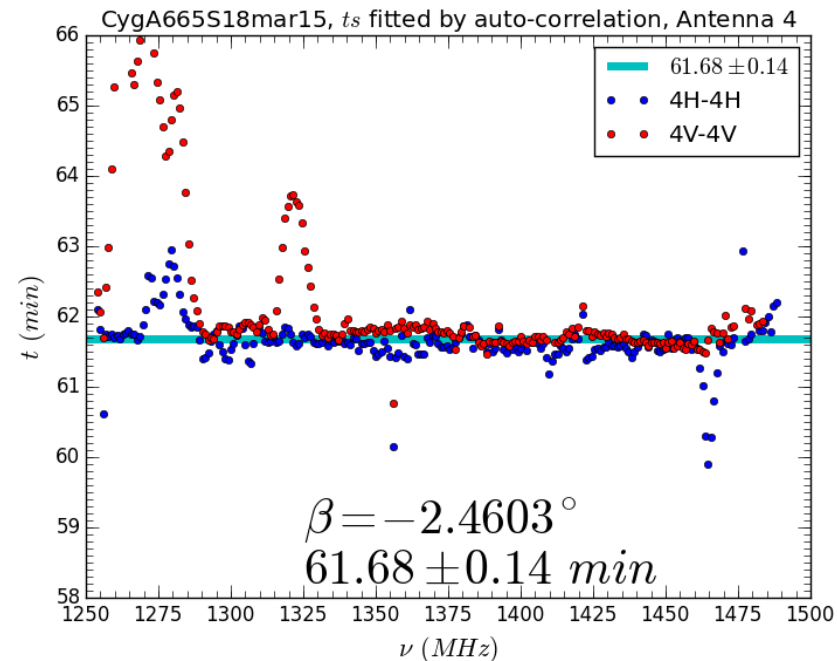
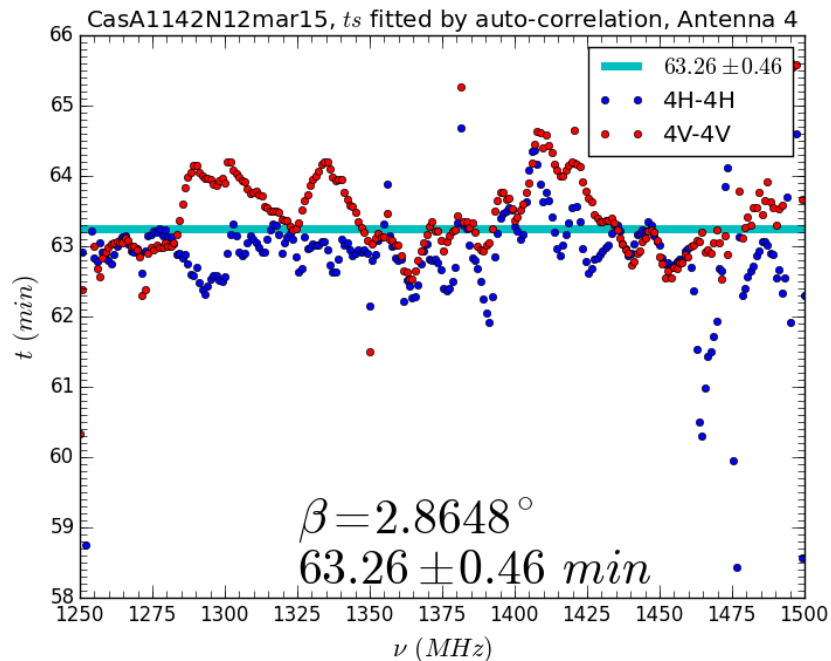
$$A \approx \left(\frac{dt}{\text{hour}} \right) \cdot 15 \cdot \left(\frac{\pi}{180} \right) \cdot \cos(Dec)$$





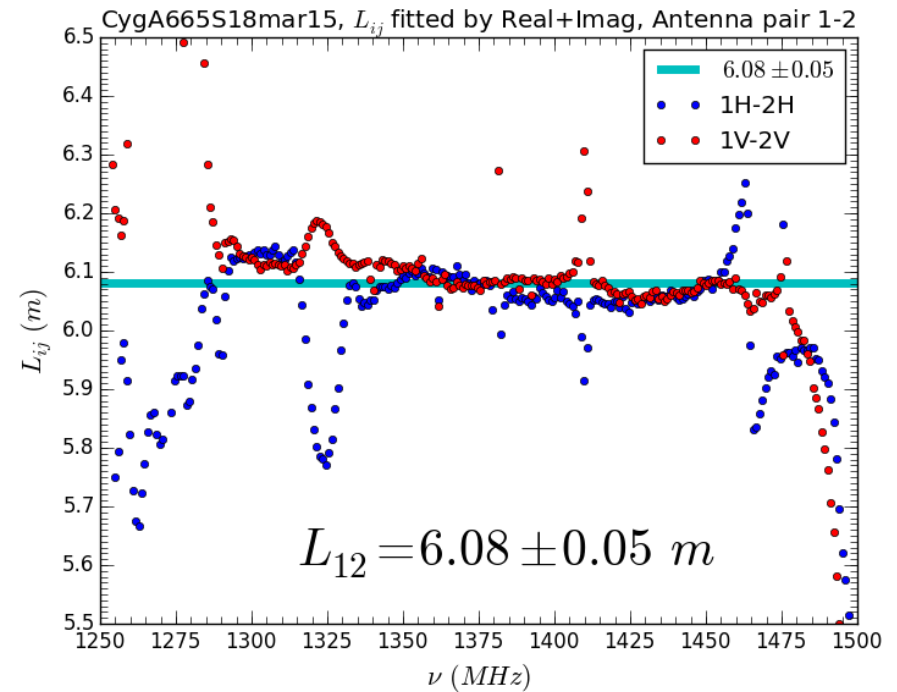
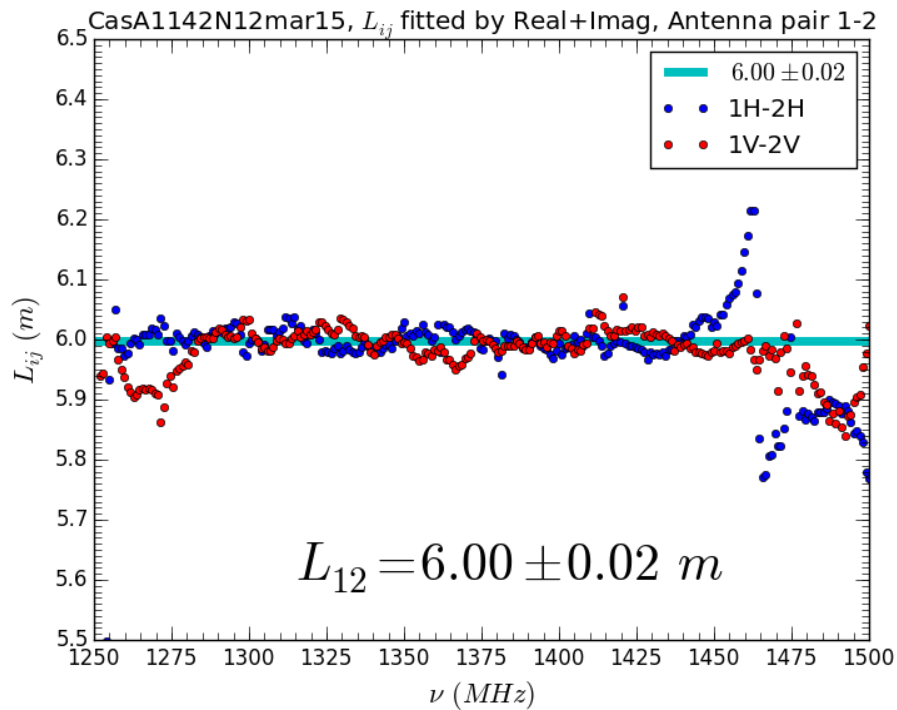


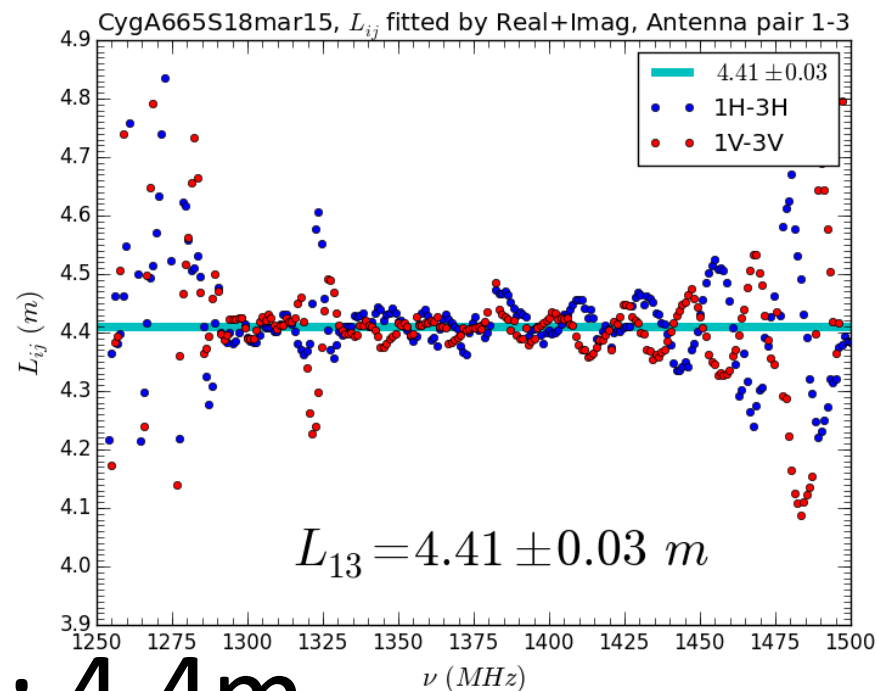
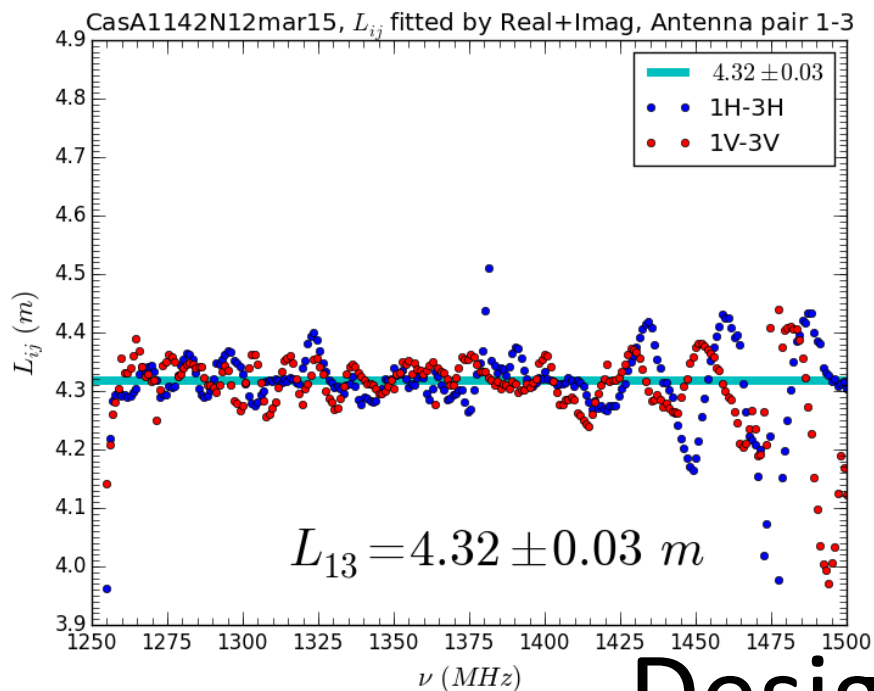




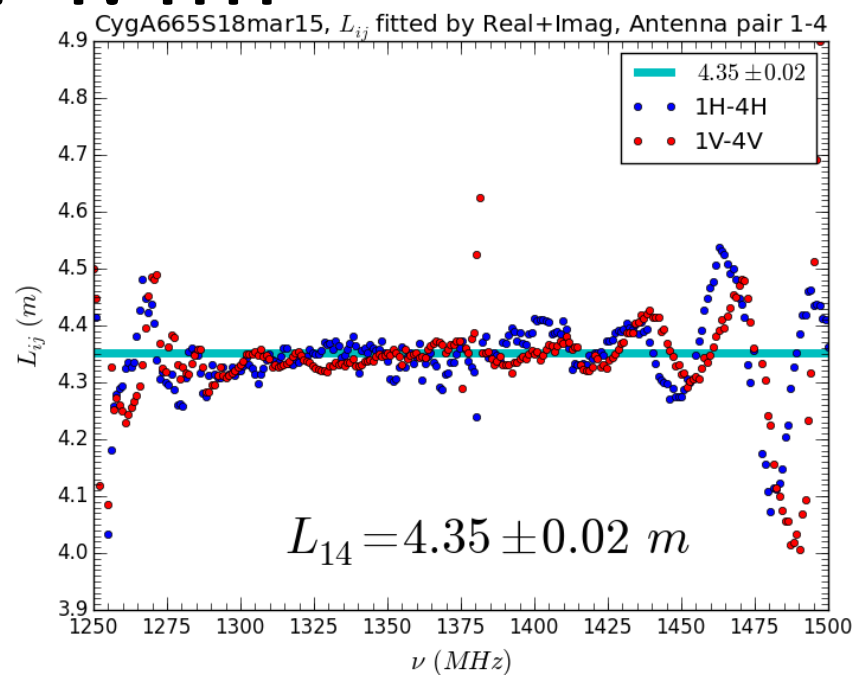
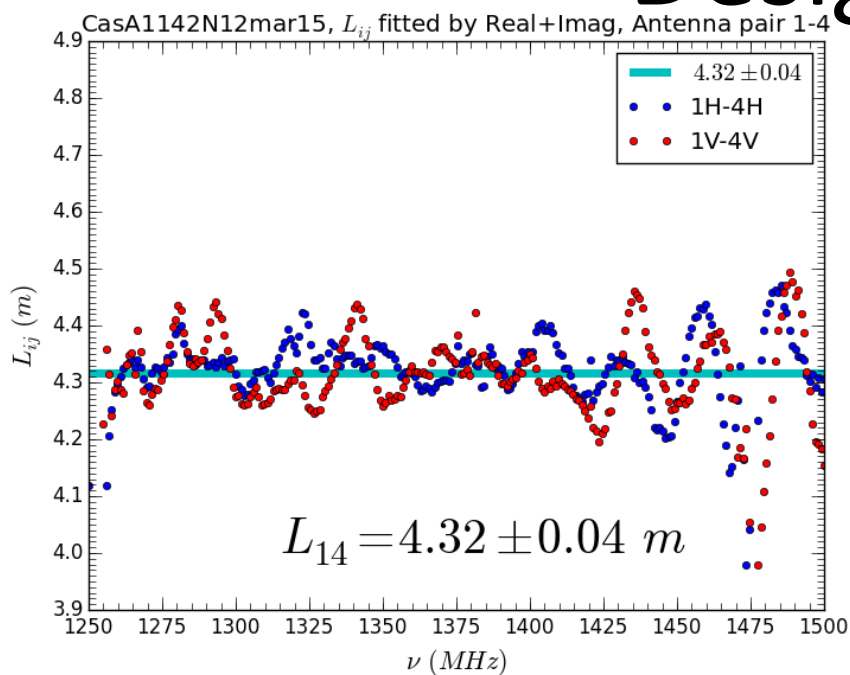
East-West Baseline

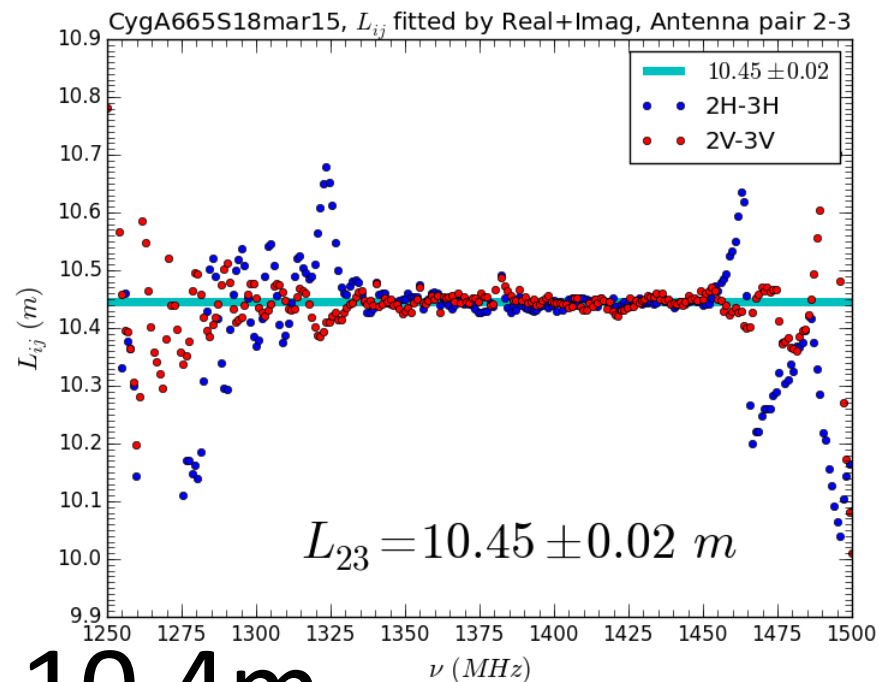
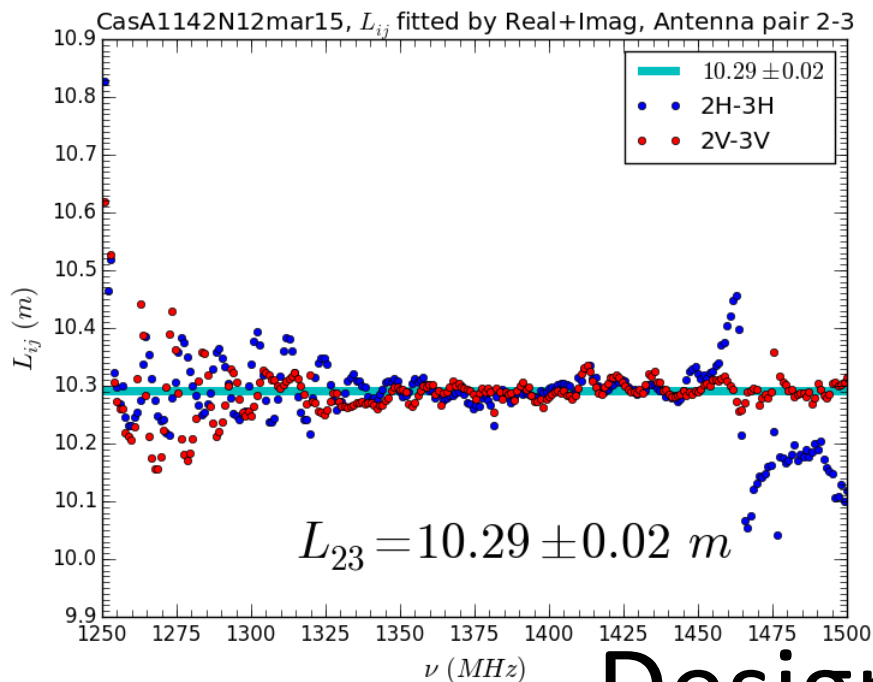
Design: 6m



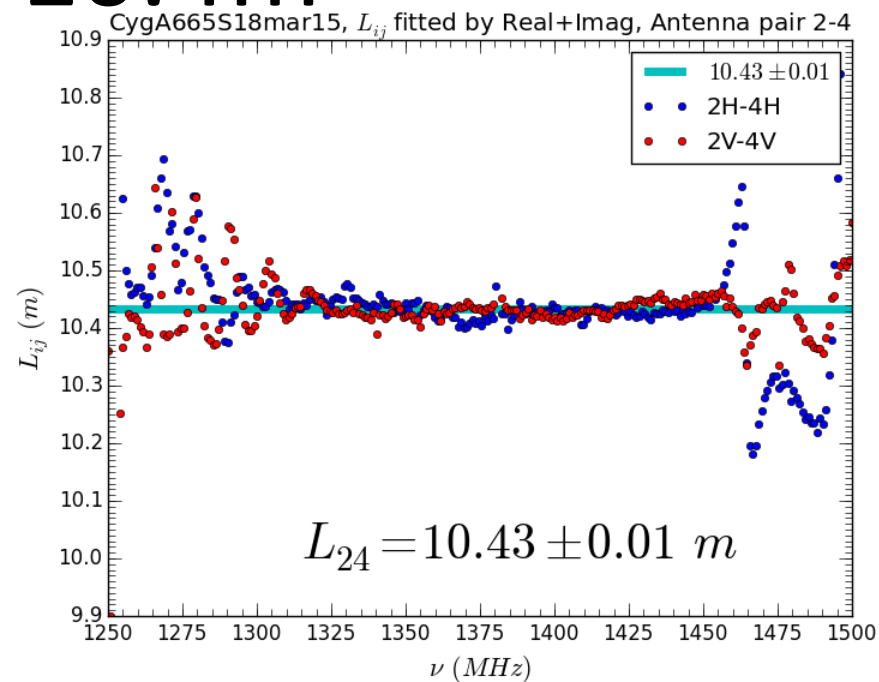
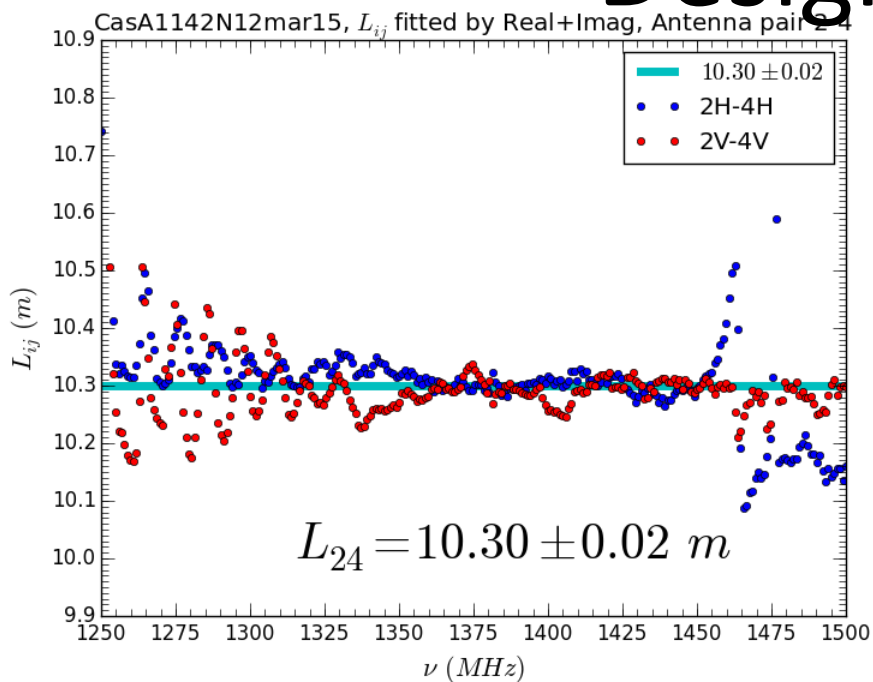


Design: 4.4m





Design: 10.4m



Phase

Assume the phase changes linearly with the frequency

