

2D time-freq map of phase

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2D “time-freq” maps of the phases

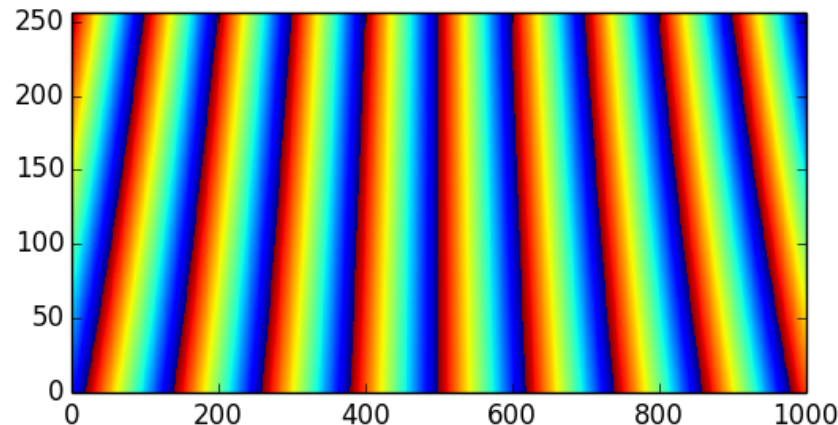
- Total phase:

$$\Phi_{tot,ij} = \frac{2\pi}{c} \cdot \nu \cdot [L_{ew,ij} \sin(\theta) - L_{ns,ij} \cos(\theta)] + \Delta\Phi_{ij}$$

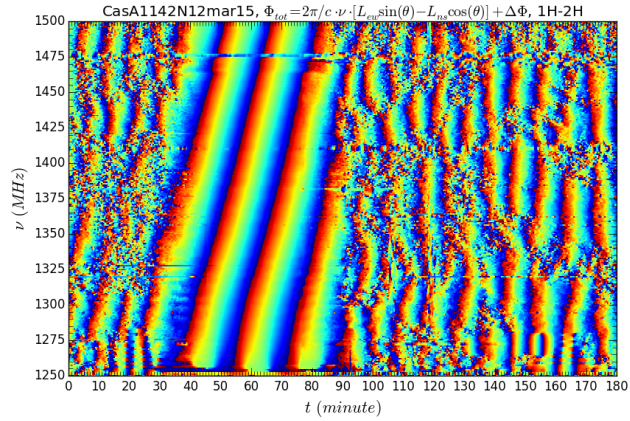
- The phase due to the East-West baseline:

$$\Phi_{ew,ij} = \frac{2\pi}{c} \cdot \nu \cdot L_{ew,ij} \cdot \sin(\theta)$$

- Because θ is from positive to 0 to negative, profile of $\Phi_{ew,ij}$ will be



- Here, I use total phase to minus the additional phase due to the cable and the phase due to North-South baseline



$$\Phi_{tot,ij} - \Phi_{ew,ij}$$

