



# KuKa Band Merit for VLBI2010

Arthur Niell

MIT Haystack Observatory



# Benefits of Ku-Ka Band Reception

- Advantages

- Sources more compact
- Possibility of observing as a co-pointing WVR



# Ku to Ka Band Reception

- Disadvantages

- Antenna tolerances more exacting

- Surface accuracy

- Pointing

- Antenna sensitivity lower

- Tsys higher

- Atmosphere contribution higher

- Fewer sources with same correlated flux density on a given baseline