

# NGC 2903: Lessons Learned

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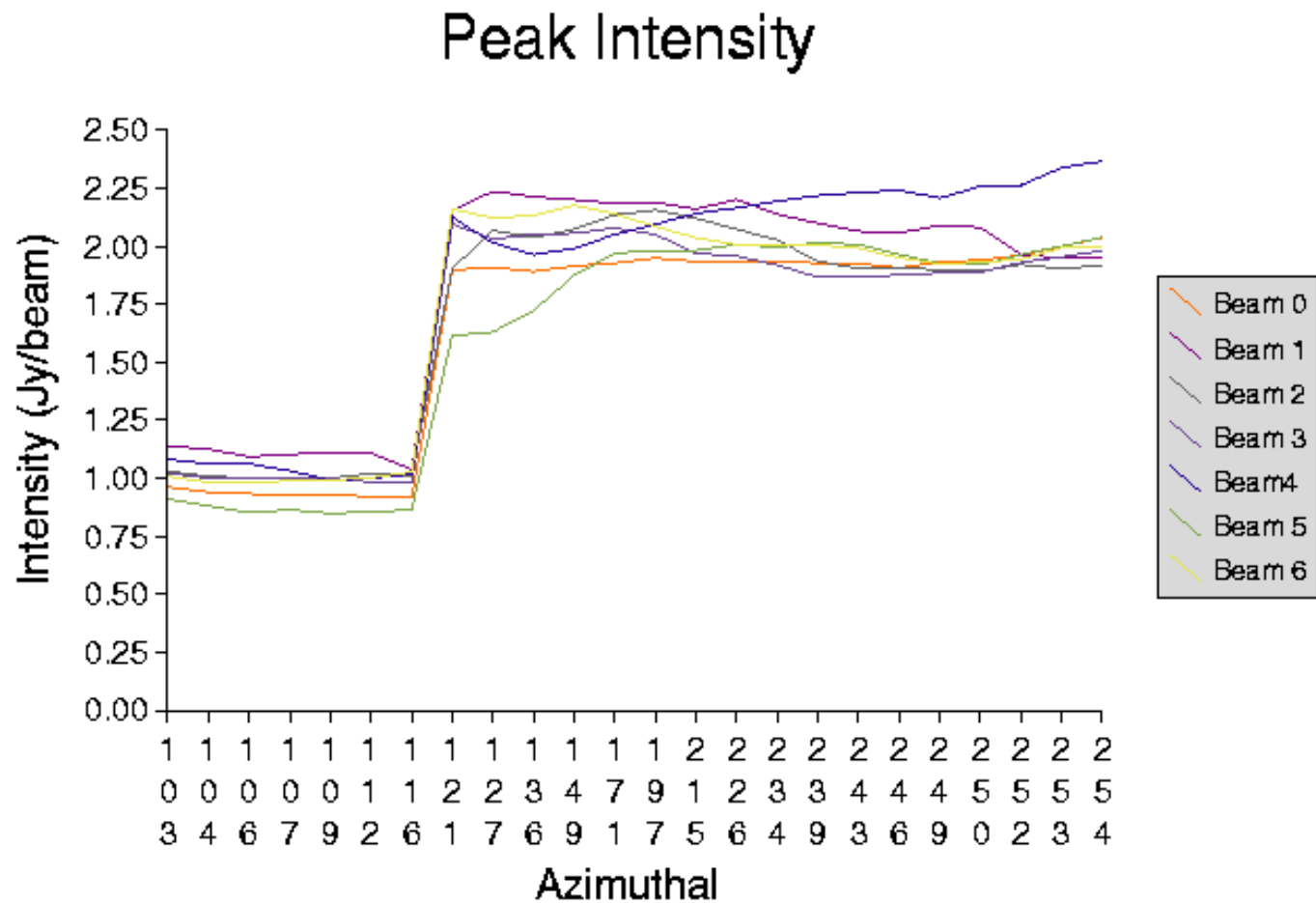
Mary Putman, University of Michigan

Barbara Catinella, Arecibo Observatory

Emmanuel Momjian, Arecibo Observatory

# Scheduling

- Slew times longer at  $ZA > 10^\circ$  and  $ZA < 4^\circ$
- Thanks to Martha for optimization routine
- Difficult to avoid missing occasional drifts
  - many beammaps have next nearest AZ
- Drifts and beammaps differ in AZ and ZA by  $\pm 1^\circ$

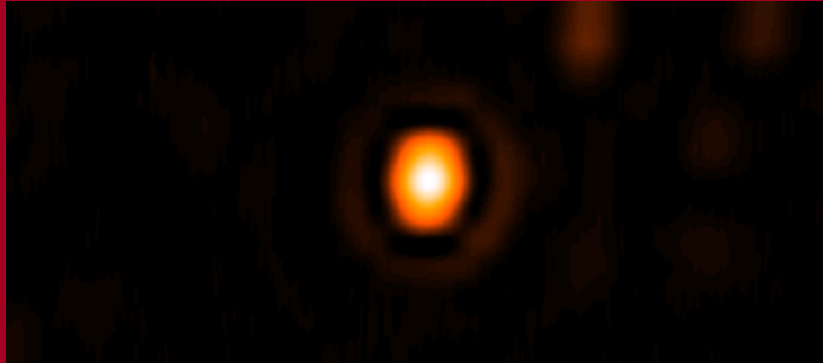
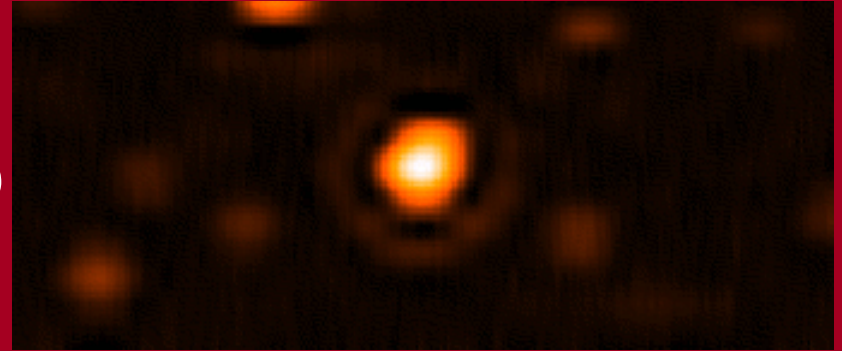


- Day-to-day variations in  $T_{\text{sys}}$  or inadequate modeling of AZ, ZA (& ALFA angle) dependence?

# Central Beams (Beam 0)

AZ 104

(PKS 0802+21)

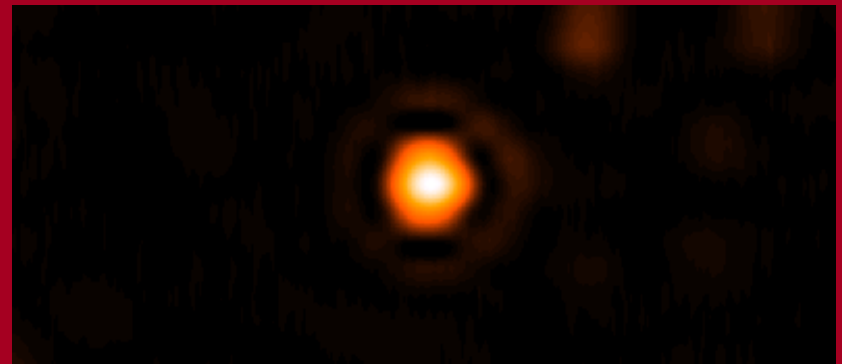


AZ 171

(3C 241)

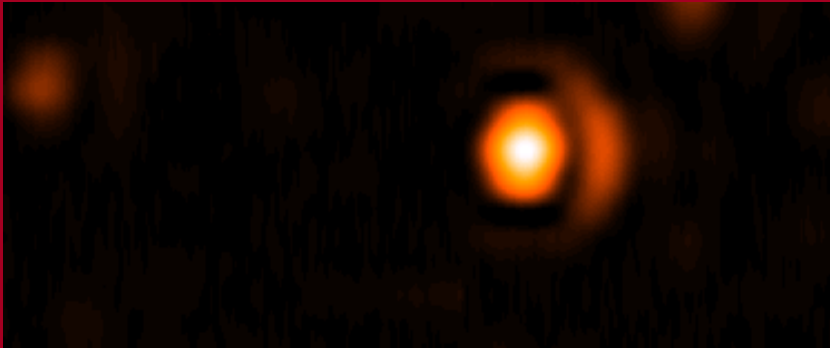
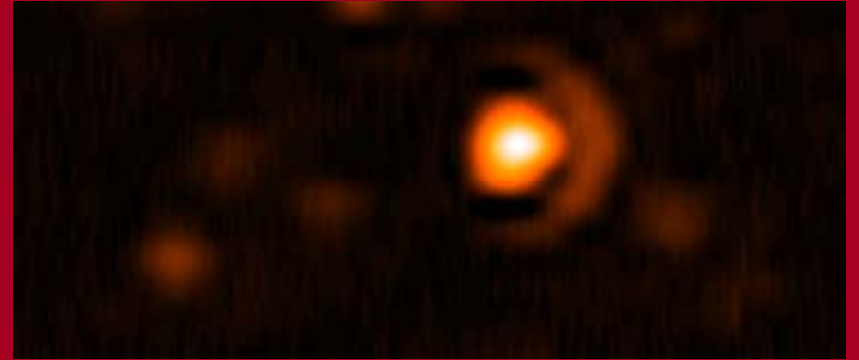
AZ252

(3C 241)



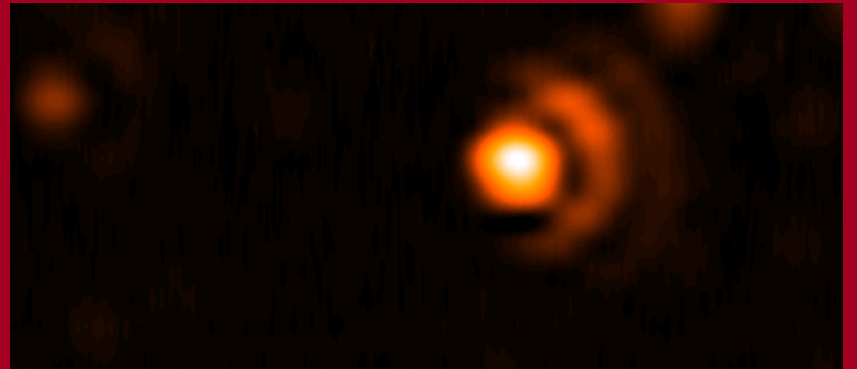
# Outer Beams (Beam 2)

AZ 104  
(PKS 0802+21)

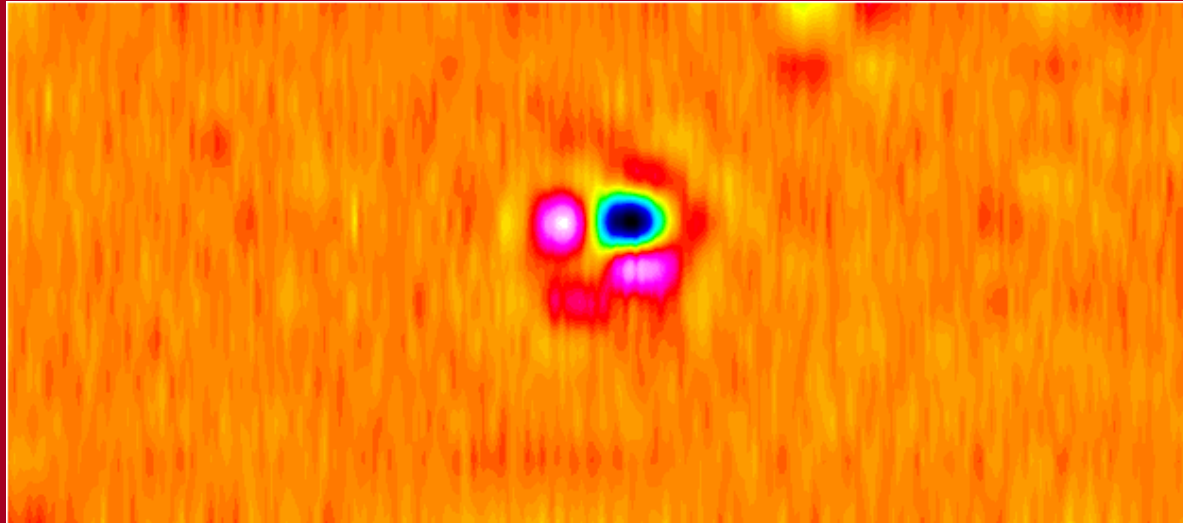


AZ 171  
(3C 241)

AZ 252  
(3C 241)

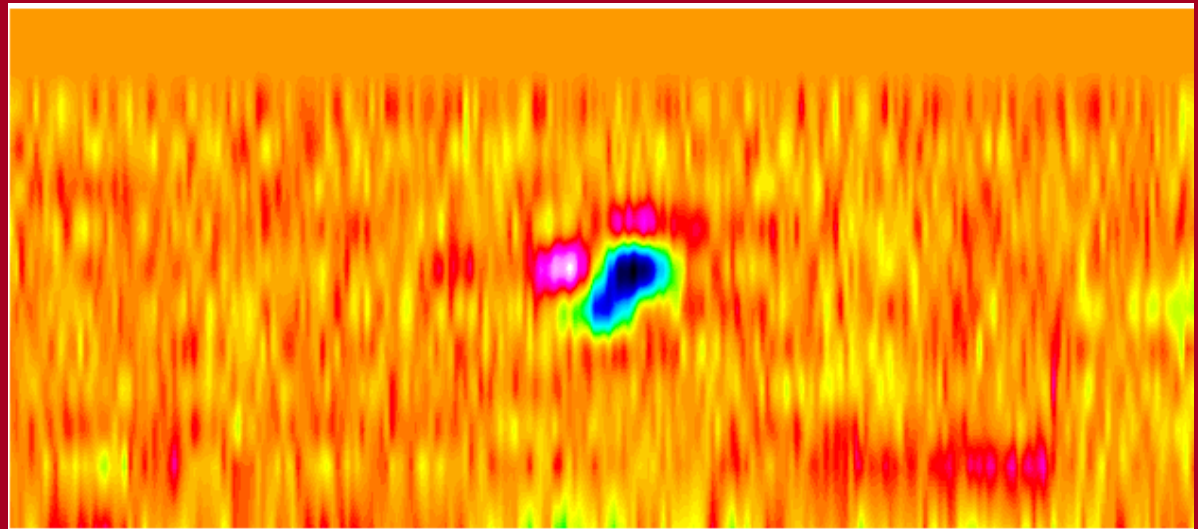


# Changes with AZ: Beam 0

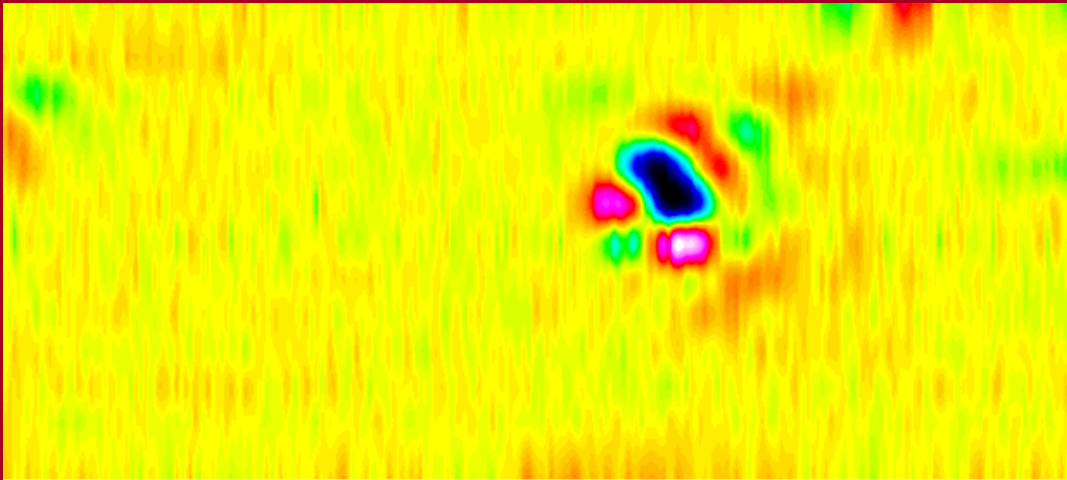


AZ 234-226

AZ 104-103

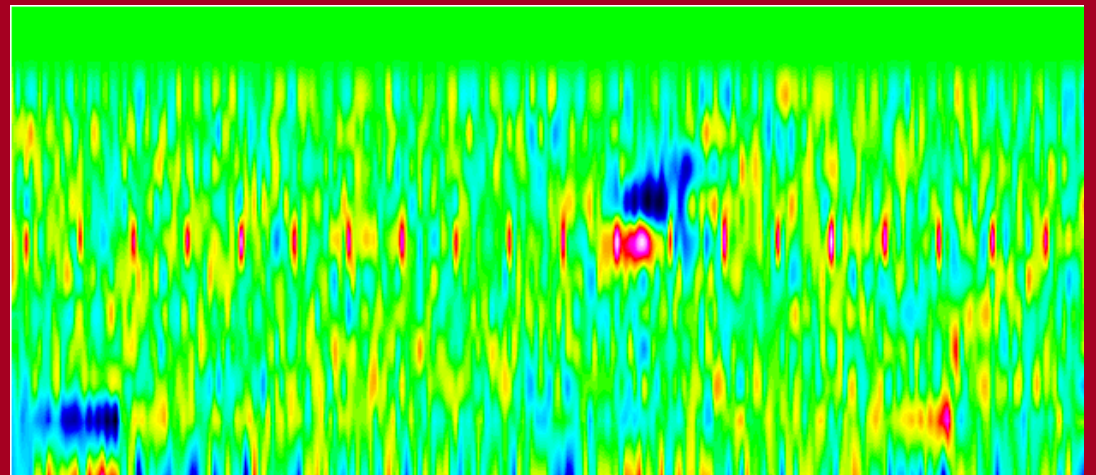


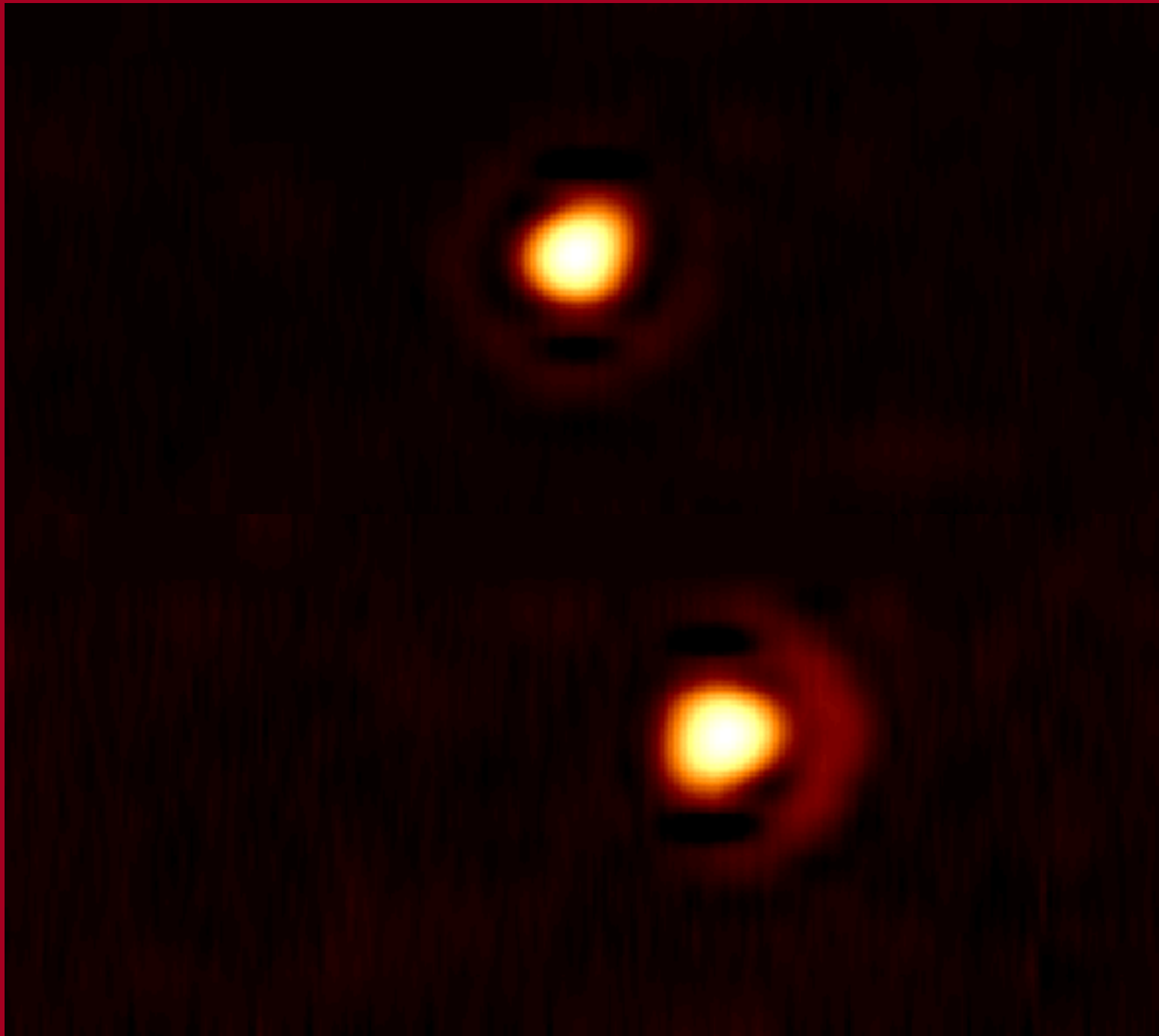
# Changes with AZ: Beam 2



AZ 234-226

AZ 104-103







# Deconvolution

- Plan to use modification of APCLN in Classic AIPS
- Have solicited guidance from B. Cotton and T. Cornwell
- Will clean each AZ map separately using appropriate set of beams, then combine