

# FAST Telescopes

Discussion  
Foreground Subtraction  
Calibration

# Foreground Subtraction

- Smooth in frequency
- Prior knowledge of sources
- Prior knowledge of instrument response
- Requirements on quality
  - One man's foreground is another's signal
- Dynamic range

# Calibration

- Requirements depend on the science project
  - Flux: relative and absolute
  - Position: relative and absolute
- Relevant time scales
  - Pay now or pay later
  - Atmospheric variations
- Number of parameters
  - gain/channel/frequency
  - Beam patterns

# Methods

- Bright stars
- Common baselines
- Real-time vs. Offline
- Inject calibration signals
- Calibration telescopes and campaigns