

# Inflation Probe Systematics working group

Update to Inflation Probe EC

July 19, 2017

# Working Group organization

- Group assembling
  - motivated group of folks with good representation of knowledge from Planck, CORE, S4
  - Email list (google group)
  - Dedicated Area on Wiki
    - <https://zzz.physics.umn.edu/ipsig/systematicswg>
- Weekly telecons (11am CET Wednesdays)

# Beginning the work:

- Assumptions for initial evaluation of systematic errors:
  - EPIC-IM architecture as a starting point
  - Probe imager band choices are freezing soon
  - Consider assume a simple Fischer analysis based on S4 framework with simple white noise to begin: add correlations as needed in the future, testing
- Review existing tools and knowledge
  - Review of S4 systematics framework (Colin)
  - Review of Planck low-ell polarization paper (Brendan)
  - Assembling list of systematics to consider with status of knowledge, simulations needed, etc.  
[https://zzz.physics.umn.edu/ipsig/preliminary\\_list\\_of\\_systematic\\_effects\\_to\\_consider](https://zzz.physics.umn.edu/ipsig/preliminary_list_of_systematic_effects_to_consider)

# Near-Term schedule

1. Rest of July: review of recent CORE systematics paper (Paolo)  
finish initial list of systematics
2. August: detailed row-by-row discussion of systematics list and determination of priorities, thinking about which to study in more detail and how to do so
3. ~ Sept 15: preliminary prioritized systematics table ready for review by larger Probe Group