

LoCo Lab EDGES Memo 177

Preliminary Fits to Mid-Band Spectrum from GHA=15-18 hrs

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1 Description

Here we show PolyChord fits to a Mid-Band integrated spectrum. The data are calibrated as in LoCo Memo 176, i.e., using receiver calibration and internal switch parameters from November 2019.

- date range: 2020-057 to 097.
- GHA range: 15 – 18 hrs.
- frequency range: 64 – 120 MHz.
- foreground model: 5-term LinLog.
- foreground reference frequency: 90 MHz.
- absorption feature model 1: same ‘EXP’ flattened Gaussian as Bowman et al. (2018).
- absorption feature model 2: ‘TANH’ flattened Gaussian with 2 tau parameters.
- parameter priors: very wide priors for all parameters.

2 Figures

- Figure 1: (a) Residuals to foreground model fit; (b) residuals to a foreground-plus-EXP absorption model fit; (c) residuals to a foreground-plus-TANH absorption model fit; (d) best-fit EXP absorption model; (e) best-fit TANH absorption model.
- Figure 2: Triangle plot for the foreground model fit.
- Figure 3: Triangle plot for the foreground-plus-EXP absorption model fit.
- Figure 4: Triangle plot for the foreground-plus-TANH absorption model fit.

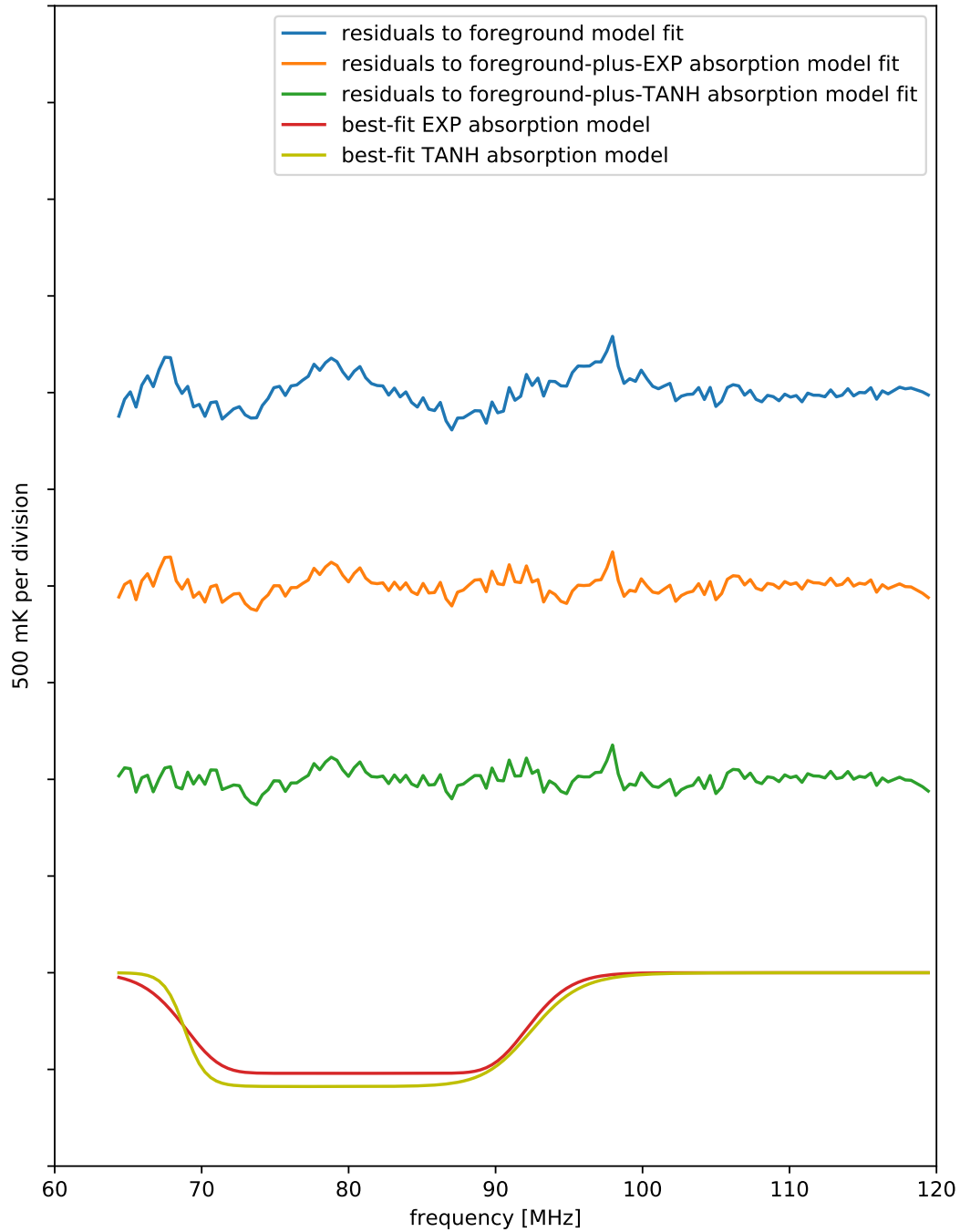


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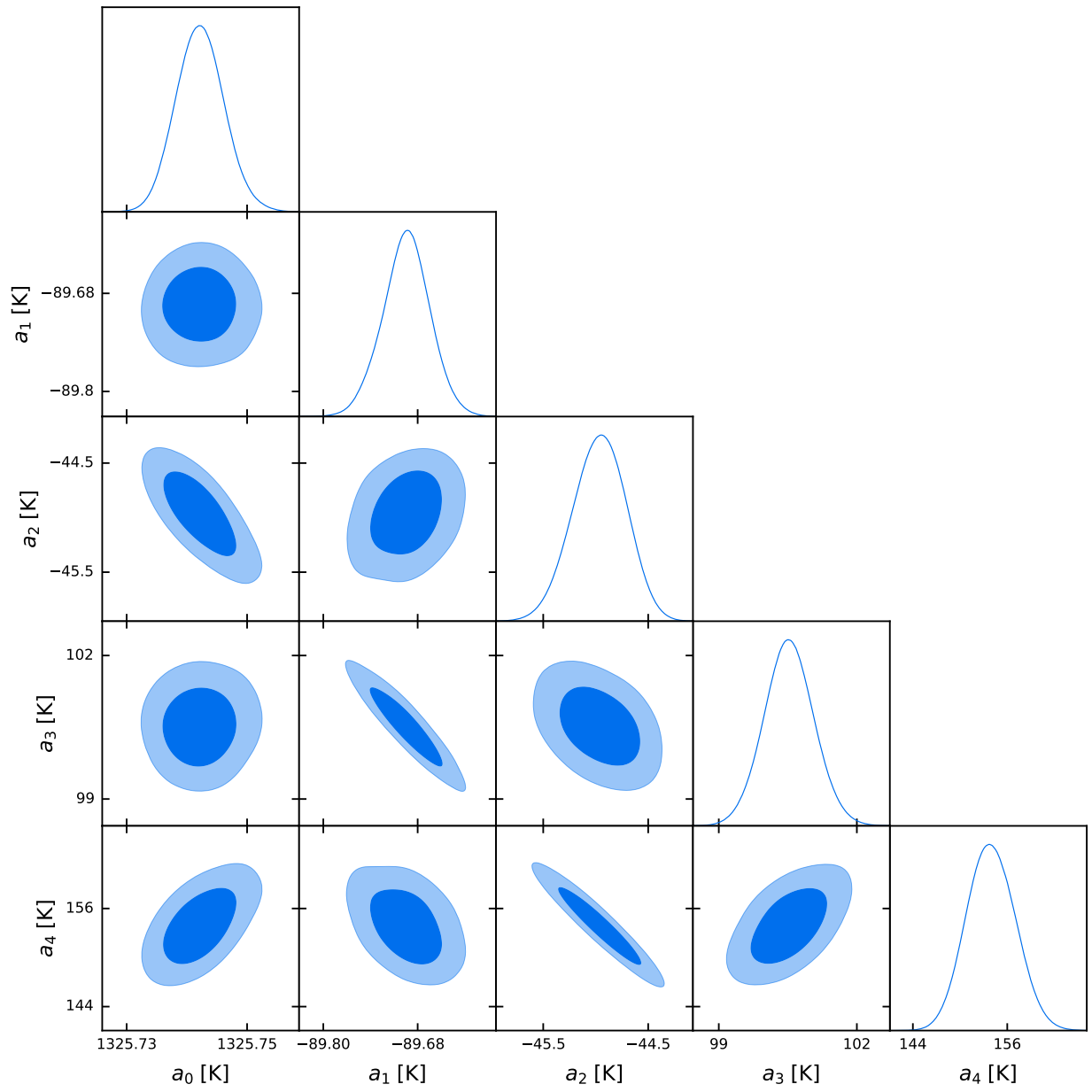


Figure 2: Triangle plot for the foreground model fit.

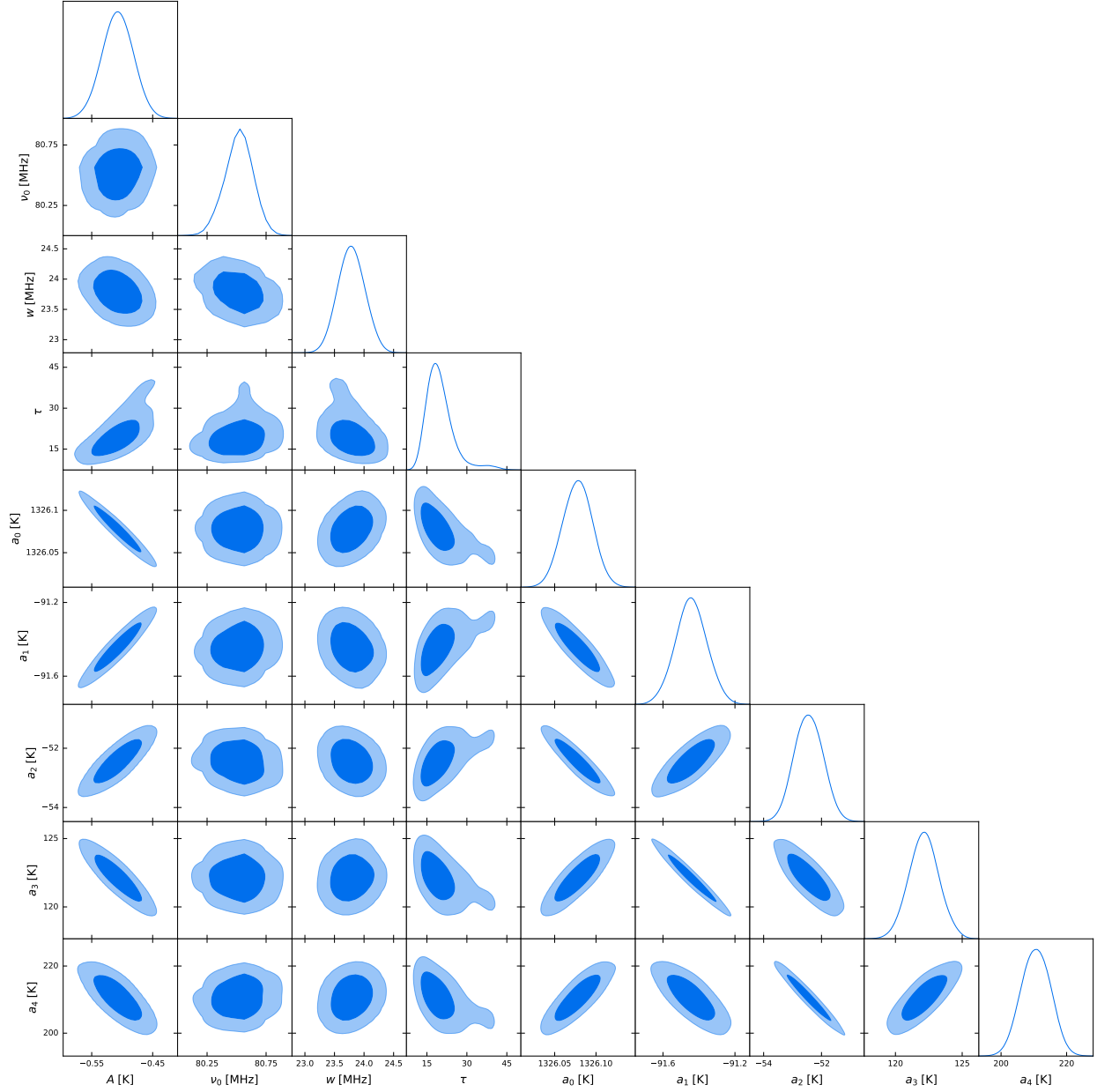


Figure 3: Triangle plot for the foreground-plus-EXP absorption model fit.

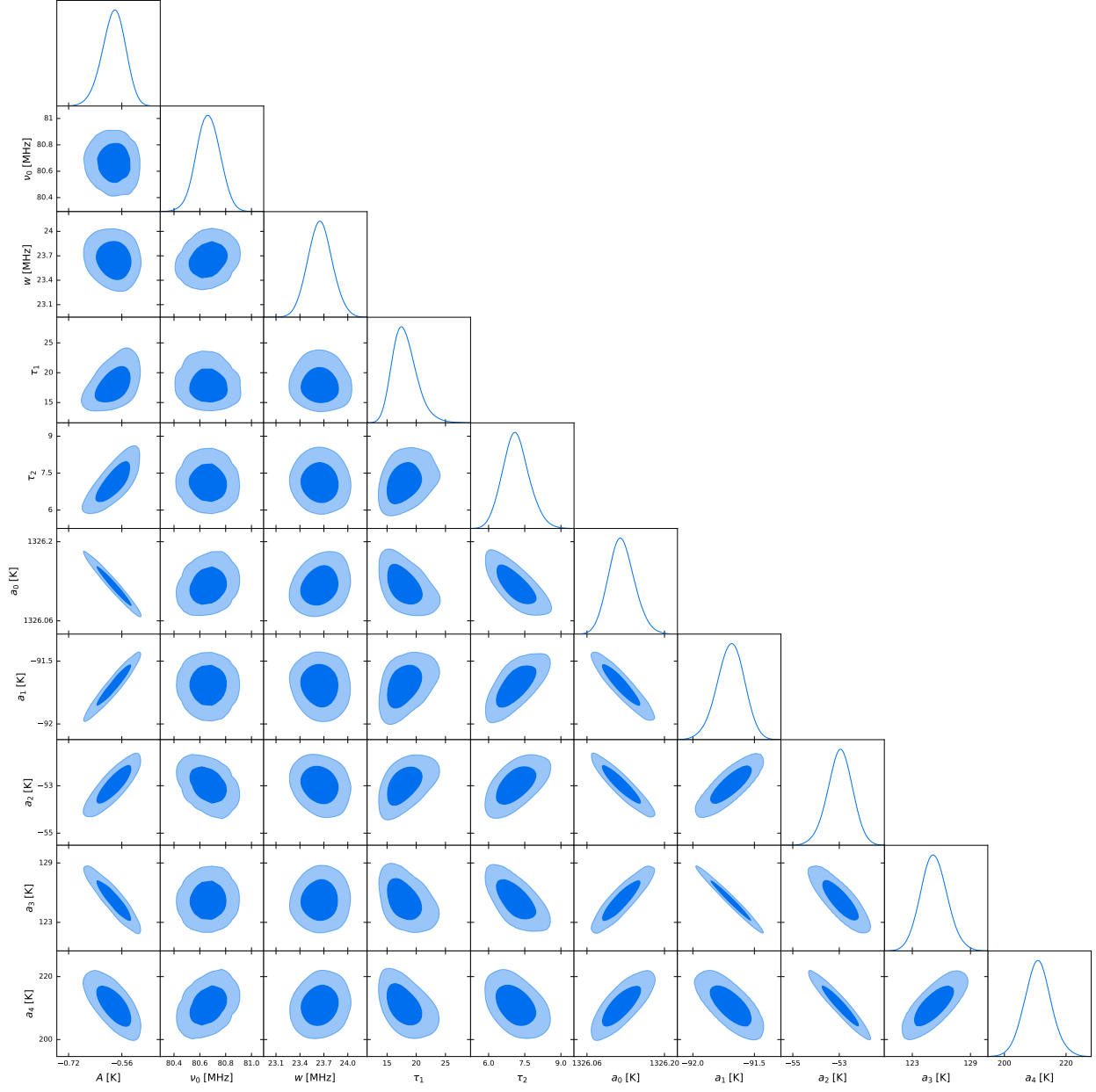


Figure 4: Triangle plot for the foreground-plus-TANH absorption model fit.