

Contour plots involving relativistic disc reflection

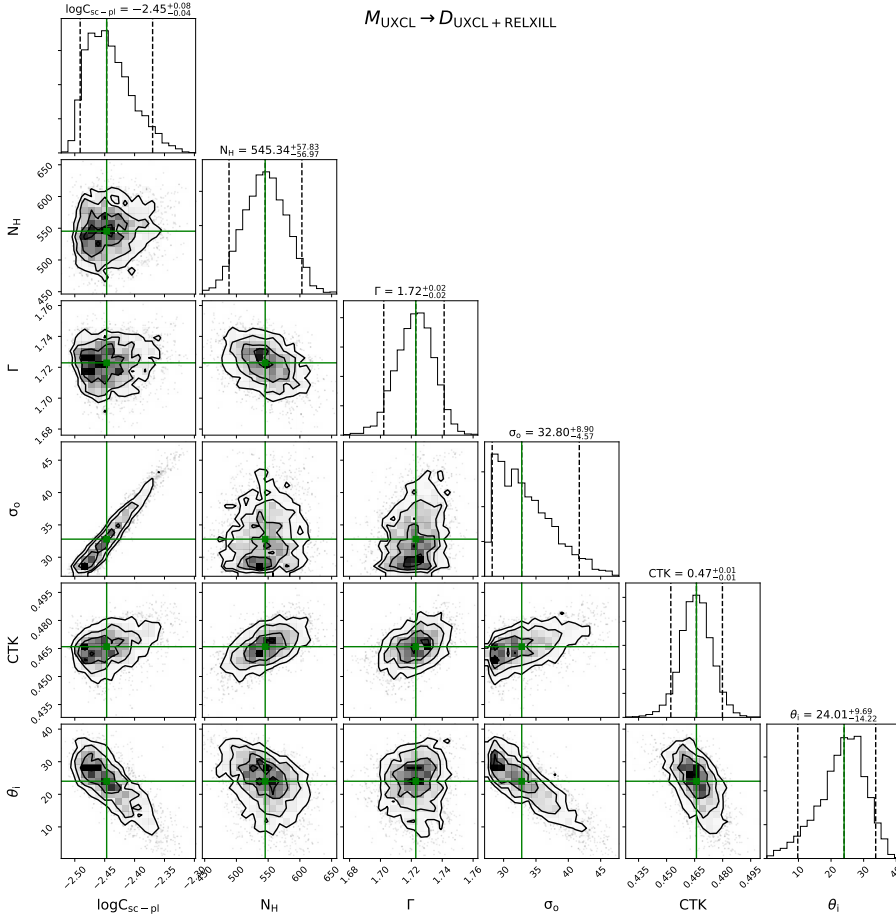


Figure 1: Contour plots for the case when the data has a disc reflection component attenuated through the torus, but the fitting model doesn't. Γ and all other morphological parameters are discrepant. However the fit is good with $\chi^2/\text{dof} = 1.07$

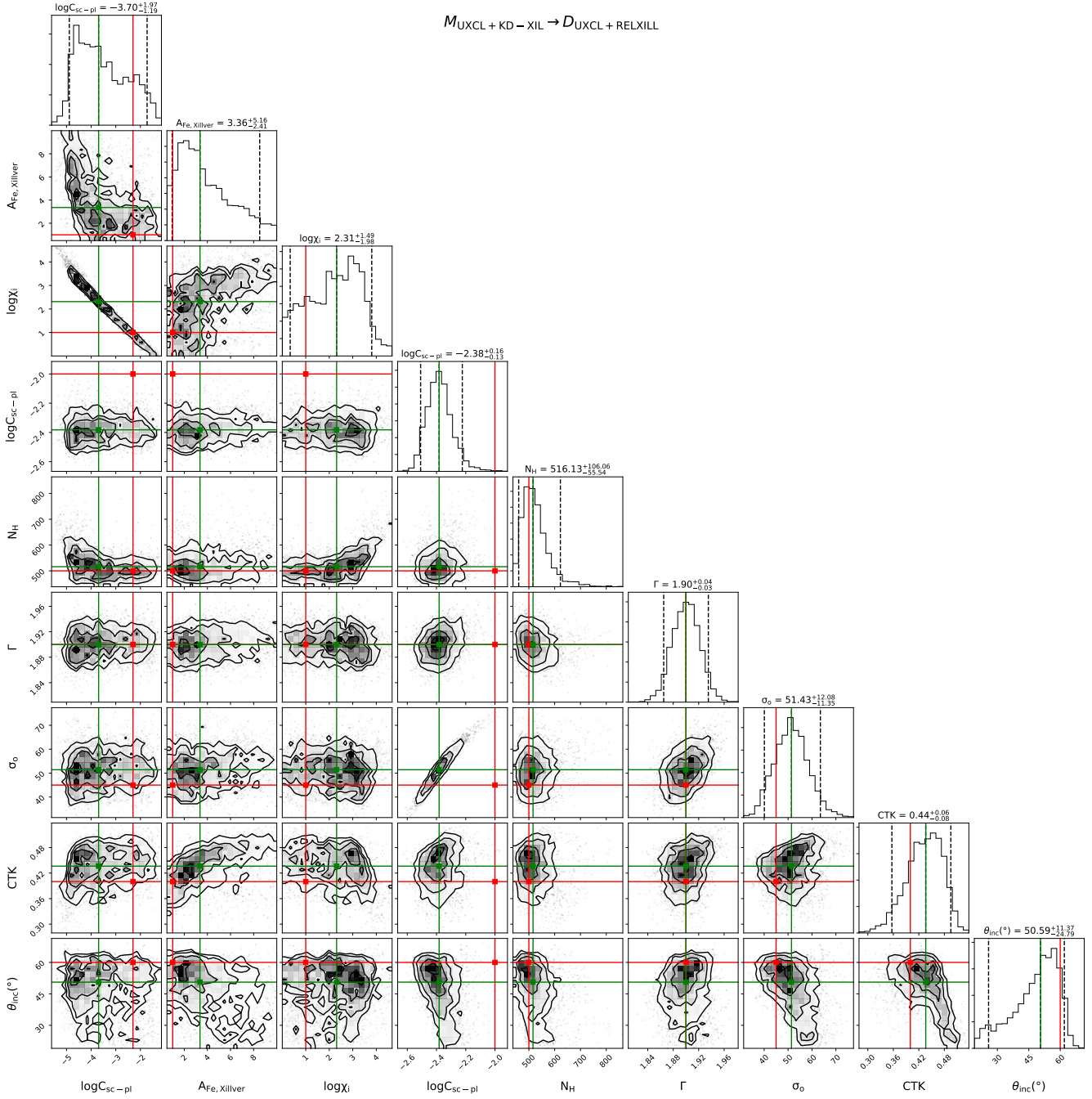


Figure 2: Same as figure 1 but for the case when both the data and the model has a disc reflection component attenuated through the torus. Γ and all other morphological parameters are recovered and the fit is good with $\chi^2/\text{dof} = 1.04$.

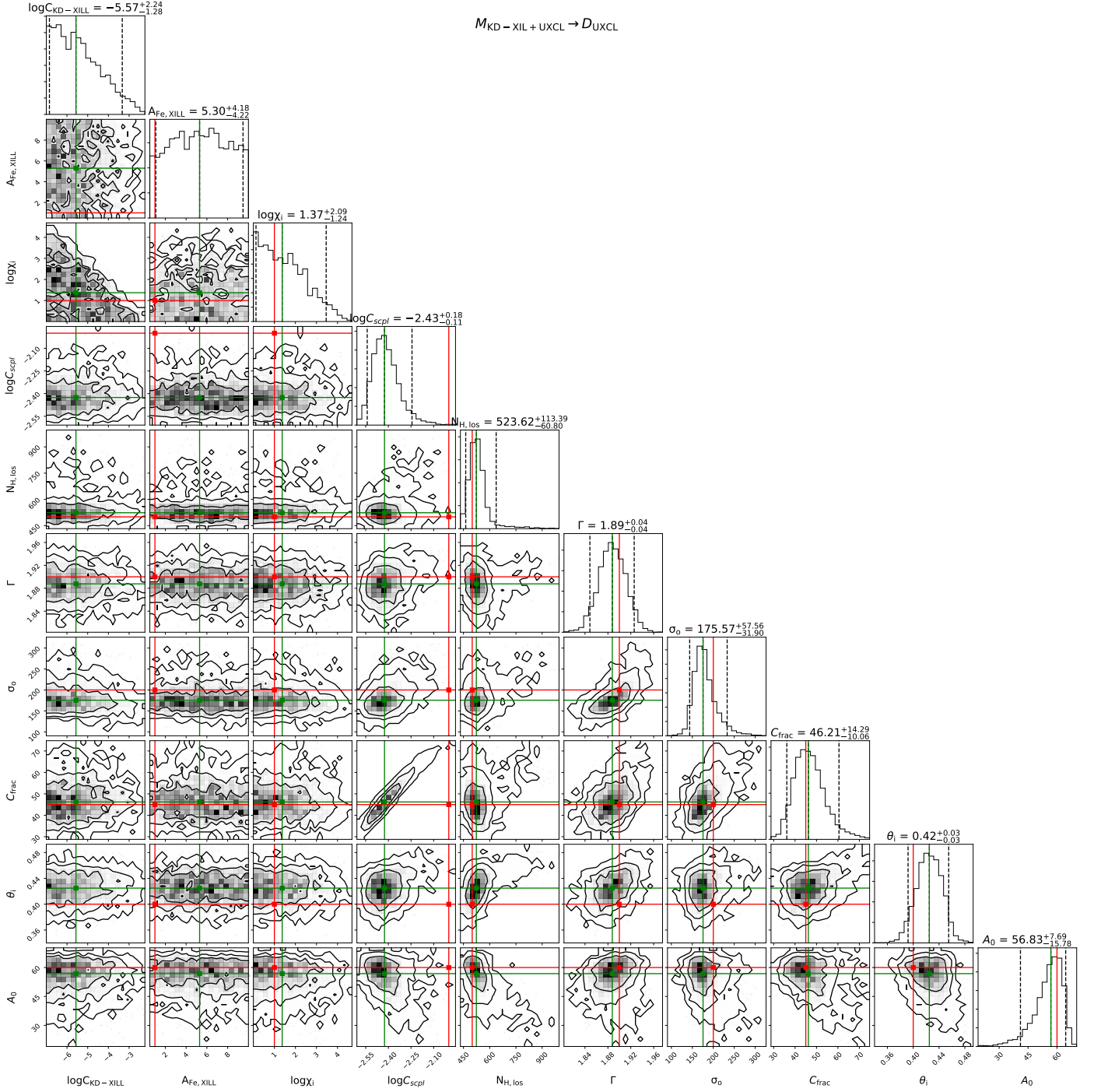


Figure 3: Contour plot results for the analysis $M_{\text{UXCL}+\text{KD-XIL}} \rightarrow D_{\text{UXCL}}$ in HCT regime. This is the case where we assumed the presence of a relativistic disc reflection even though it is NOT actually present. The posterior of $\log C_{\text{relxill}}$ consistent with -8 (lower limit set in the priors) correctly suggests the absence of relativistic disc reflection. Additionally all other UXCLUMPY parameters were recovered with posterior trends very similar to that of $M_{\text{UXCL}} \rightarrow D_{\text{UXCL}}$.