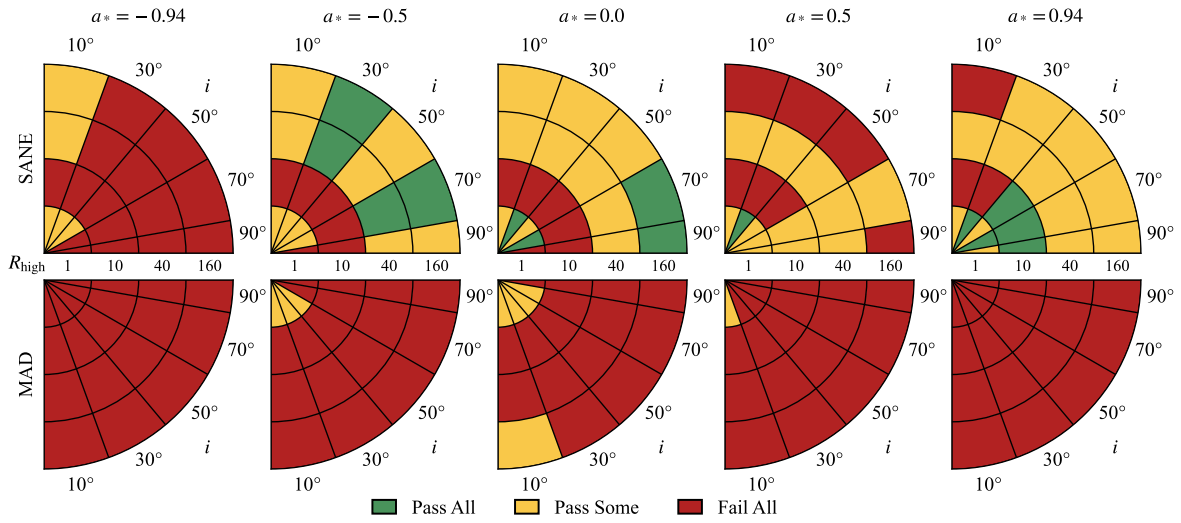
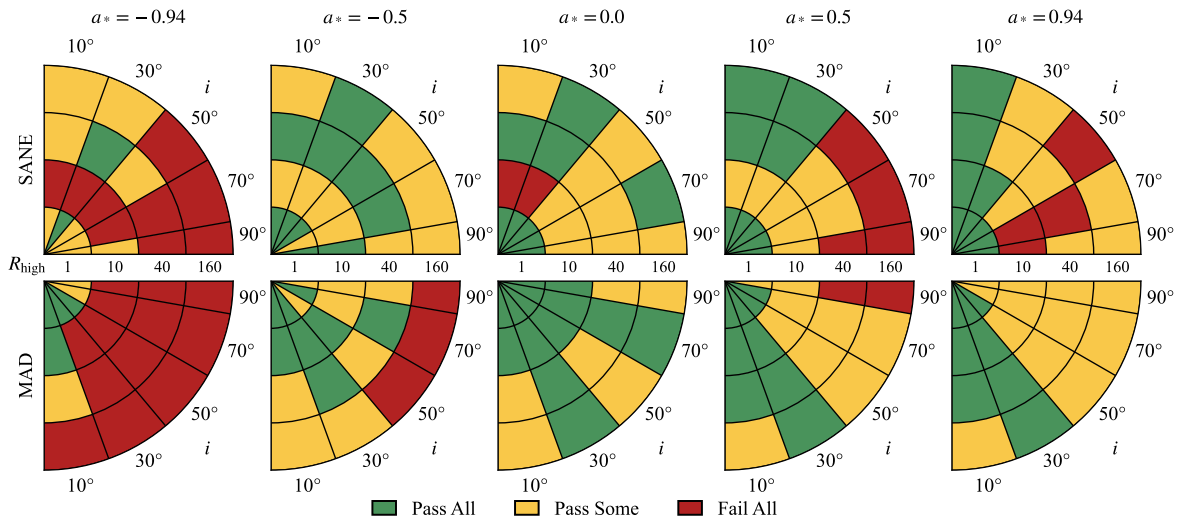


**Figure 33.** Combined constraints without structural or flux variability. Green indicates that the KHARMA, BHAC, and H-AMR models pass, yellow that one or two of the fiducial models fail, and red that all three fail.



**Figure 34.**  $M_3$  constraints. Green indicates that the KHARMA, BHAC, and H-AMR models pass, yellow that one or two of the fiducial models fail, and red that all three fail.



**Figure 35.** EHT structural variability constraints. Green indicates that the KHARMA, BHAC, and H-AMR models pass, yellow that one or two of the fiducial models fail, and red that all three fail.

We then show the non-EHT constraints. Figures 28 and 29 are the 86 GHz flux and size constraints, respectively. Figures 30 and 31 show the 2.2  $\mu\text{m}$  and x-ray constraints. Figure 32 combines all the non-EHT constraints.


















Figure 33 shows the combined constraints without structural or flux variability. Finally, Figures 34 and 35 show the  $M_3$  constraints and structural variability constraints, respectively. These results are summarized in Section 4.1.4.

The full set of constraint results for the fiducial models is presented below in graphical form. We start with the EHT constraints. Figure 22 shows the 230 GHz 2nd moment constraint and Figure 23 shows the null location constraint. Figures 24–26 show m-ring diameter, width, and asymmetry constraints, respectively. Figure 27 combines all the EHT constraints listed above. We then show the non-EHT constraints. Figures 28 and 29 are the 86 GHz flux and size constraints, respectively. Figures 30 and 31 show the 2.2  $\mu\text{m}$  and x-ray constraints. Figure 32 combines all the non-EHT constraints. Figure 33 shows the combined constraints without structural or flux variability. Finally, Figures 34 and 35 show the  $M_3$  constraints and structural variability constraints, respectively. These results are summarized in Section 4.1.4. In each plot the green models pass the constraint or constraints for KHARMA, BHAC, and H-AMR versions of the model, while the red models fail the constraint or constraints for KHARMA, BHAC, and H-AMR. The yellow models have different results for the different codes. Notice that H-AMR models are available only for  $i = 10^\circ, 50^\circ, 90^\circ$ ; at  $30^\circ$  and  $70^\circ$  only the KHARMA and BHAC models are compared.

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