**Physical optics analysis for the ‘Half-FYST’ model**

The FYST telescope pre-assembled in Xanten will be constructed solely from the mirrors’ center panels and half-side panels, as depicted in Figure 1. This note shows the simulated beam patterns of the incomplete telescope and the effects of the back carbon fiber supporting structure on the beam patterns, so we can check the possibility to test the holographic system by using the half antenna.

A blue squares in a box

Description automatically generated with medium confidence

Figure 1. ‘Half-FYST’ telescope model. The model consists of centre and Right-side panels on M1 and M2.

The beam simulations wer