

Rongwang Li
Yunnan Observatories, Chinese Academy of Sciences

Mount model of 1.2m telescope at Kunming station.

Mount model is important for a telescope, especially in autonomous application. The 1.2m telescope at Kunming station is an Alt-Az mount telescope, with coude optics path and a bird night track sub-system. Using a sCMOS mounted in the end of coude optics path, in which the field of view is rotating, we achieved the pointing accuracy about 1 arc second. The mount model consists of fundamental terms (like encoder offset, collimation, tube flexure, etc), and spheric harmonic terms determined by residual analysis.