



DEVICE FOR MOUNTING AND CORRECTING THE POSITION OF A TELESCOPE MIRROR

Innovative device for mounting and correcting the position of a mirror remaining in its shadow zone

Technological benefits

Simple but efficient technology

- Active correction of the M2 mirror position of a Cassegrain telescope
- Focus and tilt correction
- Supports the mirror on launch with no need for a locking system
- Configuration that does not obscure the telescope's field of view

An innovative system

- Tilts around a virtual point of rotation
- Limited radial rejection with no need for compensation
- System's degree of freedom limited to two control functions: tilt + focus
- Reduces the number of actuators
- Decoupling of focus adjustment and tilt functions

Invention overview

Device to make tilt and focus adjustments around a virtual point outside the mechanism itself.

System proposing a device with a number of degrees of freedom corresponding to the number of corrective movements required (translation and/or rotation).

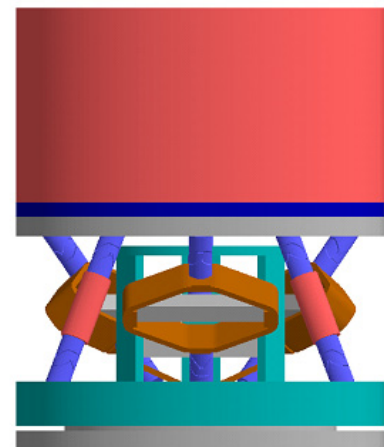
The mechanism can correct the mirror's position for focus adjustment and tilt functions with three degrees of freedom.

Potential applications

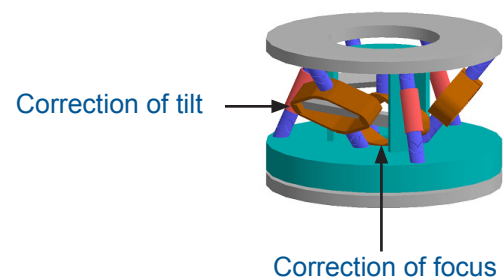
Optical Cassegrain or Newton telescopes

TRL : 3

Patented invention, available under license



Side view



Commercial benefits

Improves the telescope's optical performance