

Structure Design Considerations for Large Modular Space Telescope

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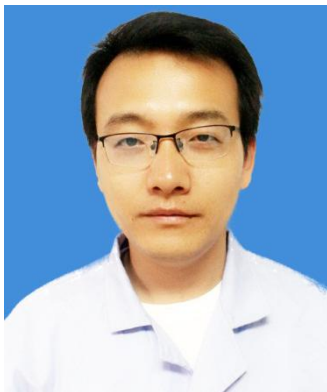
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Modular space telescope is considered to be one of the most promising method for 10m-scale large aperture space telescope implementation, which is easier to manufacture and integrate, also can be launched with launch vehicles of smaller envelope, compared to traditional single aperture telescope. Researchers around globe have been coming up with various resolution to the implementation of modular space telescope.

However, there are still several factors, which affect the imaging quality of the telescope and cost of whole project, must be considered, including the stability, weight, difficulty of maintenance and repairing, etc. Therefore, it is necessary to assess the main factors affect the design scheme, and also analysis and certain experiments must be carried out to testify the designing of telescope.

This talk will introduce the current development of structure designing methods of modular space telescope, the main considerations of modular space telescope structure design and related works been done by our CIOMP team.



Short Bio:

Funan Yu, graduated from Harbin Institute of Technology in 2012 and with master's degree in engineering machine design. He joined the Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences in the same year. He's been working on structure design for space optical imaging system, especially structure design for modular and deployed space telescope.