

TMT

Forming International Partnerships in the
Thirty Meter Telescope Project

The Thirty Meter Telescope (TMT) Project: An International Partnership

30 m 望遠鏡
三十米望远镜
तीस मीटर दूरबीन
Thirty Meter Telescope
Télescope de Trente Mètres

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Dr. Gary H. Sanders, TMT Project Manager

Dr. Gary Sanders enjoyed not only an outstanding career in physics, he is also an exceptional manager of large science projects. He has spent 25 years performing high-energy physics experiments at laboratories in the United States and Europe. He earned his PhD in high-energy physics from the MIT. He has been a faculty member in physics at Princeton University and a scientist at Los Alamos National Laboratory. In 1994, Gary joined Caltech to serve as the Project Manager and Deputy Director for the Laser Interferometer Gravitational Wave Observatory (LIGO) project. Gary joined TMT as its Project Manager in 2004. He is the author or a co-author of more than 175 peer-reviewed publications and he has been elected a Fellow of the American Physical Society.



ABSTRACT: The Thirty Meter Telescope (TMT) will lead the next generation of optical/infrared telescopes in studies of the early universe, extrasolar planets, dark energy, dark matter and probing general relativistic influences of the supermassive black hole at the center of our galaxy. With its 30 meter aperture and integrated wide field adaptive optics, TMT will combine unprecedented light collection with diffraction limited image quality. TMT is the next step in the historical development of the ground-based telescope. Situated between Asia and America, enjoying the remarkable clear sky over Mauna Kea, Hawaii, TMT is the only extremely large telescope planned in the northern hemisphere. The TMT international partnership brings together the scientific aspirations and the intellectual power of its communities in , Canada, China, India, Japan and the US. The design development of TMT is well along and construction is planned to start in 2014. The Chinese community is playing a major role in the development of TMT. Forming the partnership for TMT to carry out the construction and operation of this powerful observatory will be discussed.