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Physics and Astronomy with the Thirty Meter Telescope (TMT)

TMT is the next generation ground-based telescope having a 30-meter diameter mirror. The first light of the telescope is planned in 2018. The telescope with adaptive optics will achieve much higher resolving power and sensitivity than those with currently largest telescopes. The targets of the telescope not only cover almost all fields of astronomy, but also extend to physics and biology by measuring the expansion of the Universe and investigating the atmospheres of extra-solar planets. TMT will be constructed by the collaboration between universities and institutes in USA, Canada and Asian countries including Japan. Technical and Scientific cooperation with European Extremely Large Telescope will open the new observational astronomy.

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