

APEX AND ITS RECENT TECHNOLOGY UPGRADES AND SCIENTIFIC HIGHLIGHTS

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In this talk recent science highlights as well as current and upcoming instrumentation at the Atacama Pathfinder Experiment telescope (APEX) will be presented. APEX is a versatile 12-m submillimeter telescope situated on the Chajnantor Plateau in Chile. The telescope is operated in a collaboration of the MPG, ESO and OSO and used by a large scientific community for observations in a wide variety of science areas. It provides key observing opportunities in the post-Herschel era by overlapping in wavelengths coverage with the Herschel long wavelengths part and by allowing in the mm/submm observations with comparable angular resolution as Herschel did in the far-infrared. In the ALMA era, APEX allows pathfinding projects with quick turnover to prepare for ALMA follow ups. Multipixel instruments allow imaging of large fields and structure not easily accessible to ALMA.