THz Astronomy from Dome A, Antarctica

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As one of the driest sites, Dome A, the highest point in Antarctica, has attracted significant attention in recent years. Its high altitude, cold temperature, and calm atmosphere make it possibly the most transparent site on Earth in the THz window. To guide the future development in Dome A, the Smithsonian Astrophysical Observatory and the Purple Mountain Observatory of the Chinese Academy of Sciences plan to deploy a Fourier transform spectrometer to characterize atmospheric transmission from 20 to 350 microns wavelength. In this presentation, I will describe the current site testing efforts, and future plans for THz facilities in Dome A.