Atmospheric Attenuation at THz

- The transmission of THz signals can be dramatically affected by water in the atmosphere
  - Generally increasing absorption, and also many strong absorption lines in the THz region
  - e.g. strong lines at 183 GHz, 390 GHz, 448 GHz, 557 GHz, ...

- Loss calculated using "am.exe" program developed at Harvard-Smithsonian
  - Paine, SMA Technical Memo #152
  - cfa-www.harvard.edu/srlab
Loss of air at 50% relative humidity

Paine, SMA Technical Memo #152

Virginia Diodes
www.vadiodes.com
Loss of air at 50% relative humidity

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