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The Electromagnetic Spectra

Blackbodies are 100% efficient in absorbing electromagnetic radiation. It obeys Wien's law perfectly. Perfect blackbodies are rare. Asphalt is almost a perfect blackbody. Blackbodies are generally dark. What makes a blackbody absorb heat? The atoms in the blackbody will readily absorb electromagnetic radiation.

Gamma Rays came from a nuclear event, high energy in the nucleus of an atom.

X-Rays are the rapid acceleration of an atom, acceleration of charged particles.

Radio Waves are the result of a large stream of charged particles moving back and forth.

Celestial Coordinates

Right Ascension (RA): Is measured in hours and minutes and is the celestial equivalent to Longitude.

Declination (DEC): Is measured in degrees and is the celestial equivalent to latitude.

Celestial Equator: Is located directly above our earthly equator.

Celestial North Pole (Polaris): Located directly above the North Pole.

Celestial South Pole: Located directly above the South Pole.

Zenith: Is the point straight above you.

Nadir: Is the point directly below you.

Meridian: Runs north and south and divides the night sky into two halves, east and west.