EUROPEAN TREES

Stefan-Boltzmann constant
Stefan-Boltzmann law **(1879)**

- **Smoluchowski** equation **(1917)**
- **Boltzmann** constant **(1877)**
  Maxwell-Boltzmann statistics **(1878)**
  - **Lise Meitner** (Berlin, 1906)
  - **Ehrenfest** theorem **(1927)**
    Ehrenfest adiabatic law **(1916)**
    - **Dirk Coster** Discovery of element 72, hafnium **(1923)**
    - **WKB** or **JWKB** method **(1926)**

August Kundt
(Berlin, 1864)

- **Roentgen** ray **(1865)**
- **Paschen-Back** effect **(1925)**
  Paschen series **(1908)**
  Paschen's law
- **Franz S. Exner** (Vienna, 1871)
  - **Friedrich Hasenohrl** (Vienna, 1897)
    - **Schrodinger** equation **(1926)**; contributions to atomic theory (quantum mechanics)
    - **Karl F. Herzfeld** (Vienna, 1914)
      - **Heitler-London** treatment **(1927)**

Rydberg constant, formula, state
Rydberg transition, orbital **(1890)**

- **Karl Manne Georg Siegbahn** X-ray spectroscopy

Alfred Kastler
discovery and development of optical methods for studying hertzian resonance in atoms

- **Claude Cohen-Tannoudji** develoment of methods to cool and trap atoms with laser light

Heiki Kamerlingh-Onnes
properties of matter at low temperatures; liquid helium

- **Zeeman** effect **(1896 - 1897)**

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