## GENEALOGY DATABASE ENTRY

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Sommerfeld, Arnold Johannes Wilhelm

1868 - 1951

DEGREE: PhD DATE: 1891 PLACE: Königsberg TEACHER/RESEARCH ADVISOR: Lindemann, C. L. F.

studied boundary-value problems, such as the propagation of electromagnetic waves along wires of finite diameter and the diffraction of X-rays by a wedge-shaped slit; investigated the hydrodynamics of viscous fluids, attempting to explain the onset of turbulance and discovering a theory of the lubrication of machines; predicted the phenomenon of Bremsstrahlung, the preferential forward-directed emission of light by electrons decelerated from relativistic velocities; important contributor to the development of quantum mechanics, esp. the non-circular orbit model of the Bohr atom.

1. Dictionary of Scientific Biography; Charles Scribner's Sons: 1970-1990; vol. 12, p525-532.

- 2. Obit. Not. Fell. Roy. Soc. 1952-53, 8, 275-296.
- 3. Am. J. Phys. 1949, 17, 312-316.
- 4. Science 1951, 114, 383-384.
- 5. Gesammelte Schriften; Sauer, F., Ed.; Friedrich Vieweg & Sohn: 1968.