GENEALOGY DATABASE ENTRY

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Thomson, Joseph John

1856 - 1940

DEGREE: BA (mathematics) DATE: 1880 TEACHER/RESEARCH ADVISOR: Routh PLACE: Cambridge

Nobel Prize 1906; discovered the electron, the first sub-atomic particle, and determined its chargeto-mass ratio; discovered that charged objects have extra inertia - the so-called electromagnetic mass; pioneer in the conduction of electricity through gases; proposed "plum pudding" model of the atom; pioneer in scattering experiments for the elucidation of atomic structure; invented first practical mass spectrometer and was first to separate isotopes of stable elements; seven of his assistants also won Nobel Prizes.

FOOTNOTE: After obtaining his degree at Cambridge, Thomson worked for four years in the Cavendish Laboratory under Strutt (Lord Rayleigh).

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