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from their spectra. In the 1930's he began working on the new particles. His accomplishments during this period included a formulation of the non-abelian vector field interactions in 1938 and the Klein transformation, as well as research on meson theories and even later attempts at particle systematics.

The son of Sweden's first rabbi, Klein grew up in an intellectual and humanistic home, which imbued him with a lifelong interest in biblical and historical studies.

In addition to his scientific work and his professorship (since 1931) at Stockholm, Klein was active in the cultural and political debates of his country and was selflessly and effectively involved in fighting Nazism and helping refugees.

The honors Klein received included membership in the Swedish, Danish and Norwegian Academies and the Nobel committee in physics. He held honorary degrees from the Universities of Copenhagen and Oslo, and was awarded the Max Planck Medal in 1959. He had many friends in the US, which he first visited as an assistant professor at the University of Michigan, 1923-25.

Shyness often made contacts difficult for Klein, but when at ease among friends, he would stand out as a deeply learned and gentle scholar. An old letter of Hendrik A. Lorentz to Albert Einstein speaks of Klein's modesty and promise; he always remained modest while fulfilling that promise.

STANLEY DESER
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Hari Keshab Sen

Hari Keshab Sen, retired senior scientist of the Air Force Cambridge Research Laboratories (Bedford, Mass.), died on 1 September 1976 at the age of 71. He was known for the Sen-Wyller magneto-ionic theory, which is a generalization of the standard Appleton-Hartree formula for radiowave propagation through a weakly ionized gas in a magnetic field. His theory explains the measured refraction, absorption and reflection properties of radio waves in and from the ionospheric D layers.

Sen received his doctorate in astrophysics from Allahabad University (India) in 1943 and came to the US in 1947 on an Aggasiz Research Fellowship to Harvard University. Prior to joining the Air Force Cambridge Research Labs in 1955, Sen was lecturer in astronomy at the Harvard College Observatory, 1948-51, where he worked with Donald H. Menzel on astrophysical problems.

Sen served as a physicist at the National Bureau of Standards in Boulder, 1951-54, and as a senior scientist of Hughes Aircraft Co, 1954-55. He became a research associate at the Harvard College Observatory in 1959. □

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