



Prof. Victor Frederick Weisskopf
Professor of Physics, Massachusetts Institute of
Technology, Cambridge, MA, USA



Most important awards, prizes and academies

Max Planck Medal (1956); Ordre pour le Mérite, Germany (1978); Smolakowski Medal, Poland (1979); National Medal of Science, U.S.A. (1980); Wolf Prize, Israel (1982); Ehrenzeichen für Kunst und Wissenschaft, Austria (1982); Giancarlo Wick Medal (1994); Grosses Goldenes Ehrenzeichen, Austria (2000). Academies: National USA, American USA, Austrian, Bavarian, Danish, French, Soviet, Spanish.

Summary of scientific research

Quantum electro-dynamics: Theory of natural line width; self-energy of electrons; calculation of lambshift; theory of charged scalar mesons.

Nuclear Physics: theory of nuclear reactions; compound nucleus; 'crystal cell' model of the nucleus; statistical theory of nuclear excitation; nuclear temperature.

Elementary particle physics: quark model; 'bag' theory of nucleons.

Main publications

Weisskopf V.F., *Berechnung der natürlichen Linienbreite auf Grund der Dirac'sen Lichttheorie* (with E. Wigner). «Z. Phys.», 63, 51 (1930); Weisskopf V.F., *Über die Selbstenergie des Electrons*. «Z. Phys.», 89, 27 (1934); Weisskopf V.F., *Self-energy of the electromagnetic field of the electron*. «Phys. Rev.», 57, 472 (1940); Weisskopf V.F., *Statistics and Nuclear Reactions*. «Phys. Rev.», 52, 295 (1937); Weisskopf V.F., *Schematic Theory of the nuclear cross-section* (with H. Feshbach). «Phys. Rev.», 76, 1550 (1949); Weisskopf V.F., *Theoretical Nuclear Physics* (with J. Blatt). J. Wiley Publisher, New York (1952); Weisskopf V.F., *Knowledge and Wonder*. New York, Doubleday, Publisher 1962; Weisskopf V.F., *Hadron Decay processes and the Quark Model*. «Nuovo Cimento», X 50, 617 (1967); Weisskopf V.F., *A new model of Hadrons* (with A. Chodos, R. Jaffe, K. Johnson, C. Thorn). «Phys. Rev.», 9 (1974); Weisskopf V.F., *Physics in the XX Century*. M.I.T. Press, Cambridge (1972); Weisskopf V.F., *Concepts of Particle Physics* (with K. Gottfried). Oxford Press, New York, Oxford 1984, 1986; Weisskopf V.F., *The Joy of Insight*. New York, Basic Books, 1991.