

## Curriculum Vitae of Sándor Varró.

Prof. Dr. Sándor Varró, Leading Scientist at ELI (Extreme Light Infrastructure), ERIC, ALPS (Attosecond Light Pulse Source) Research Institute, Szeged, Hungary.

**Educational background, scientific degrees:** Physicist Diploma (1979, József Attila University (JATE), now Univ. of Szeged; SZTE, Hungary). PhD degree (1982, JATE). Candidate of Physical Sciences (1986, Habilitationsschrift, Hungarian Academy of Sciences). DSc (1999; Doctor of the Hungarian Acad. Sci.). Dr. Habil. degree (2001, SZTE). Private univ. prof. (2005, SZTE). Foreign languages state exams: English (1982); Russian (1984); German (Goethe Institut Murnau, Germany, 1988, and in Hungary, 1999).

**Scientific employment record:** Doctorant, Research Assistant (Central Research Institute for Physics (KFKI) of the Hungarian Academy of Sciences, Research Institute for Solid State Physics (RISSP), 1979 -1982). Research Fellow (KFKI, RISSP, 1983–1986). Senior Res. Fellow (RISSP of Hung. Acad. Sci., 1987-1998). Associate Professor (University of Pécs, Hungary, 1992–1995). Head of the Laser Physics Department of Research Institute for Solid State Physics and Optics (RISSPO), Hung. Acad. Sci., 2000-2002). Sci. Advisor at RISSPO of the Hung. Acad. Sci. (1999–2011). Scientific Advisor at the Wigner Research Centre for Physics (2012–2023). Leading Scientist at ELI (Extreme Light Infrastructure), ERIC, ALPS (Attosecond Light Pulse Source) Research Institute, Szeged, Hungary (2014-date).

**Research fields and interests:** non-perturbative methods for treating high-order processes in strong laser fields, theory of high-harmonic and attosecond pulse generation, laser acceleration of charged particles, surface plasmons, photon statistics and correlations, quantum action-angle variables, phase-space distributions and entanglement in quantum optics, gauge-invariant Wigner functions, black-body radiation, history of physics.

**Scientometrics:** Number of articles in refereed journal: 112. Peer reviewed proceedings: 46. Book chapters: 20. Number of independent citation 1800, h-index 23. i10-index: 59.

**Visiting scientist, fellowships:** Guest scientists (Institut für Theoretische Physik, University of Innsbruck, Austria, 1983-1998; yearly 2 months stays on average). Academic exchange visits (Lebedev Physical Institute, Moscow, Sovietunion, 1981-85; four months). Collaboration at the Physical Institute, University of Helsinki, Finland (1982-86; three months), and at the Optical Sciences Centre, Tucson, Arizona, USA (1985, 1986; three months). Alexander von Humboldt Fellow (Max-Planck-Institut für Quantenoptik, Garching bei München, Germany, 1988–1989). DAAD Fellow (Institut für Quantenphysik, 2001, 2004, 2012; four months, University of Ulm, Ulm, Germany).

**Professional society affiliations, activities, honors:** Member of the Eötvös Loránd Physical Society (1979-date). Member of the Committee of Laser Physics of the Hung. Acad. Sci. (1992-2023). Member of the Committee of History of Science and Technology of the Hung. Acad. Sci. (2015-date). Member of the Alexander von Humboldt Verein Ungarn (1990-date). “Young Scientist” Award of the Hungarian Academy of Sciences(1983). “Jánosy” Award of the Central Research Institute for Physics, Hung. Acad. Sci. (1985). “Schmid” Award of the Eötvös Loránd Physical Society (1987).

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