CURRICULUM VITAE OF KÁROLY MAKÓNYI

Personal details

Name: Károly Makónyi

Citizenship: Hungarian

Address: 877 Clopper road T1, Gaithersburg, MD, 20878
tel: ++01-240-683-5899 [currently]
145 Hadházi út III/10, Debrecen, Hungary, 4028
tel: ++01-36-52-460-350 [from April]

Date of birth: 10/15/1970

Marital status: Married

Education

1996 – 2000 University of Debrecen (Kossuth Lajos University),
Debrecen, Hungary
Major: Physics

1994 – 1996 University of Szeged (József Attila University),
Szeged, Hungary
Major: Physics

Work

2002 – 2004 National Intitute of Standard and Technology, Physics Division,
Plasma Radiation Group
Guest Researcher (physicist)

2002 Harvard-Smithsonian Astrophysical Observatory
Guest Researcher (physicist)

2000 – 2002 University of Debrecen, Faculty of Medicine, PET Center
Software developer

1997 – 1998 University of Debrecen, Institute of Experimental Physics
Held ,,Hardware and control engineering" seminars

Scientific Activity

2002 – 2004	National Intitute of Standard and Technology, Physics Division, Plasma Radiation Group X-ray spectroscopy with microcalorimeter, Plasma imaging studies
2002	Harvard-Smithsonian Astrophysical Observatory I took part in building of an X-ray microcalorimeter
1999 – 2000	Nuclear Research of the Hungarian Academy of Sciences, Debrecen I developed software for the positioning of the Muon Barrel Alignment System with optical devices at LHC (CERN)
2000	CERN, Geneva We measured optical and mechanical effects of intensive electron radiation in optical fibers. I developed a simulation to measure the energy loss in the optical fiber.
1999	Scientific Student Conference, Debrecen I developed a software to simulate the effect of attachment between the species in the biological evolution. It was a presentation at a scientific student conference.
1996 – 1999	University of Debrecen, Institute of Experimental Physics I helped to analyse the data of the Silicon Microvertex Detector Laser Displacement Monitoring System, at L3 experiment (CERN)
1996	Technical University of Vienna I helped to set up an experiment in connection with the observation of the ,,Hollow Atom"
1995 – 1996	Laser Physics Group of the Hungarian Academy of Sciences, Szeged The group was dealing with the simulation and the experimental methods of the Pulsed Laser Deposition. I collected and wrote up the relevant articles

Computer skills

Languages:

- FORTRAN
- C
- C++
- Perl

Software packages:

- PAW
- ROOT
- Geant3
- Geant4
- Matlab
- Mathematica

Language Skills

Hungarian	Native language
English	Good

Selected Publication

1998	Bull. Am. Phys. Soc. Vol 43, No 7.1606, 1998 Data analysis of Laser Displacement System of Silicon Microvertex Detector at L3 experiment at CERN Gyorgyi Marián, László Baksay, Károly Makónyi
2000	7th Workshop on Electronics for LHC Experiments 2000 Results of Gamma Photon and Neutron Irradiations of Hamamatsu R5600-03/NG Photomiltiplier Tube Gábor Dajkó, András Fenyvesi, Károly Makónyi, József Molnár, Sohler D., Péter Raics, András Kerek, Dezső Novák
2002	Calorimetry in Particle Physics. Proceedings. 10th International Conference. CALOR 2002. Dumanoglu I., Eskut E., Kayis Topkasu A., Koca N., Polatoz A., Oneng ut G., Merlo J. -P., Akchurin N., Akgun U., Ayan S., Bruecken P., Schmidt I., Onel Y., Fenyvesi A., Makónyi K., Novák D., Serin M., Zeyrek M. Radiation hardness studies of high OH- quartz fibres for a hadronic forward calorimeter of the Compact Muon Solenoid experiment at the Large Hadron Collider.
2003	Workshop on Non-Neutral Plasmas - 2003 Highly charged ion confinement in electron beam ion traps Károly Makónyi, Marco Matranga, Endre Takács, Ilmar Kink, Csilla Szabó, John D. Gillaspy