

Scientific Curriculum of Giacomo-Vito Margagliotti

Giacomo-Vito Margagliotti is Associate Professor at the University of Trieste. He had his PhD in Physics in 1992.

His research work is mostly devoted to the Nuclear Physics, starting with the physics of neutrons, and going, through the physics with hadronic probes at intermediate energies and the physics of heavy ions at intermediate energies, toward the physics of particles and heavy ions at ultra-relativistic energies. He actively worked in many national and international scientific laboratories: Laboratori Nazionali di Legnaro (Padova), and LNS (Catania); Laboratoires Nationales de GANIL (Caen - F); NSCL (MSU - Michigan - USA); CERN (Geneva - CH).

He worked in the OBELIX experiment at CERN, studying the physics of annihilations antiproton-proton and antineutron-(neutron & proton); he developed and managed the beam monitors and part of the triggers. Moreover he proposed and led a particular physics measure, concerning the study of the formation of metastable states induced by the capture of antiprotons on Helium.

He was Leader of the Trieste group of researchers (INFN) for the OUVERTURE experiment, led at the Laboratori Nazionali del Sud (LNS). OUVERTURE was devoted to the physics of heavy ions at intermediate energies, above all concerning the multi-fragmentation and the phase transition phenomena in nuclear matter. During that, he was also the responsible for the functionality of the MULTICS experimental apparatus of OUVERTURE.

Actually he works for the ALICE experiment at CERN, and until last year he was the Leader of the Trieste group of researchers (INFN) for the ALICE experiment. He is now the deputy leader and Contact Person of this group.

With the ALICE experiment, he studies mainly the quark-gluon plasma in the Lead-Lead interactions at ultra-relativistic energies of the LHC at CERN.

He was also Coordinator of the Gruppo III of INFN (Nuclear Physics) at Trieste, and he is referee of two experiments: JLab12 at the Jefferson Laboratories (USA), and LUNA3 at the Laboratori Nazionali del Gran Sasso (Italy). He was also one of the referee at the Jefferson Laboratories (USA) for the Forward Tagger Detector.

G-V. Margagliotti had also funds of the ex 60% for a biennial project concerning "study and optimization of detectors for the nuclear physics"; he also participated to another project, financed with the 40% funds devoted to the research, and concerning the development of GRID-like structures.

G-V. Margagliotti carries out his own didactic activity mostly teaching in Courses devoted to the General Physics and to the Laboratories of Physics. He is teaching for

many years both in the Faculties of Sciences (Physics) and Medicine of the Trieste University. He is the president of the commissions of exams for those courses. He is coordinator of the “Integrated Course of Physics, Statistics and Computing Methodologies” for the graduate course on “Dental Hygiene”. He was member, and president, of appraisal commissions for “Research grants” and “Researcher staff”. He was supervisor of graduate students, supervisor of research grants for Italian researchers and for a foreign researcher, and also supervisor of PhD’s. He is now the Master of Studies of the Corso di Laurea and of the Corso di Laurea Magistrale Interateneo in Physics of the Trieste University.

He also regularly did seminars on “Physics methods for blood analysis” during the specialization courses of Cardiology and Orthopedics of the Trieste University.

He was for many years the reference person for the scientific seminars of the Department of Physics; he began the development of the museum of scientific instruments of the Department of Physics.

Starting from 2002 he was inserted in the list of “Albo degli Esperti”.

G-V. Margagliotti is author or co-author of about 430 written papers, more than 265 are published in internationally referred journals (about 90 were published during the three last years). His actual WOS h-index is 51 and his HEP h-index is 71.

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