



UNIVERSITÀ DEGLI STUDI DELL'AQUILA

CORSI DI INGEGNERIA

Prof. Elia Palange

Curriculum scientifico

(Aggiornato il 28/10/2013)

Elia Palange, si laurea con lode in fisica nel 1976 presso l'Università di Roma "La Sapienza". Attualmente è Professore Associato di Fisica e Nanofotonica presso la Facoltà di Ingegneria dell'Università dell'Aquila. Egli è stato visiting scientist presso il Laboratoire d'Optique Quantique a Palaiseau - Francia (1981-1983), presso il centro di ricerche della IBM "T.J. Watson Research Centre" a Yorktown Heights (NY) ? USA (1987-1988) e professore visitante presso il Departamento de Eletrônica Quântica dell'Istituto di Fisica della Università Statale di Campinas ? Brasile (1984, 1994-1995). Durante la sua attività scientifica egli si è dedicato a ricerche nel campo della fisica dei laser, dell'ottica e della spettroscopia non lineare, delle proprietà ottiche di eterostrutture di semiconduttori di dimensioni nanometriche e composti di meta-materiali organici ed inorganici.

Attualmente è Responsabile del Laboratorio di Ottica e Fotonica del Dipartimento di Ingegneria Elettrica e dell'Informazione dell'Università dell'Aquila. Il Laboratorio è impegnato nello sviluppare attività di ricerca sullo sviluppo di dispositivi fotonici innovativi e multi-funzionali basati sull'utilizzo di sistemi di metamateriali lineari e non lineari nella situazione di regime estremo per la permittività dielettrica, sulla elettron-attivazione di solitoni spaziali in cristalli foto-rifrattivi, sull'uso di nanofili di Ge e Si per la fabbricazione di nanodispositivi elettronici ed opto-elettronici e sulla sintesi e caratterizzazione delle proprietà fisiche e strutturali di nanoparticelle di leghe di FePt con elevate proprietà magnetiche. Egli è co-autore di 90 articoli scientifici su riviste internazionali con Referee, di 4 brevetti europei e di uno negli Stati Uniti.

Elia Palange, graduated in Physics in 1976 at the University ?La Sapienza? of Rome ? Italy, is currently Associated Professor of Physics and Nanophotonics at the Faculty of Engineering of the University of L'Aquila. He was visiting scientist at the Laboratoire d'Optique Quantique - Palaiseau - France (1981-1983), at the IBM T.J. Watson Research Centre - Yorktown Heights (NY) ? USA (1987-1989) and visiting professor at the Departamento de Eletrônica Quântica of the Instituto de Fisica of the Universidade Estadual de Campinas ? Brazil (1984-1985, 1992-1994). During his scientific activities he carried out research on laser physics, nonlinear optics and spectroscopy and optical properties of nanometer sized semiconductor heterostructures and organic/inorganic metamaterial compounds. He is currently the Supervisor of the Optics and Photonics Laboratory of the Electrical and Information Engineering Department. The Laboratory is developing research activities on novel photonics multifunctional devices based on linear and nonlinear extreme metamaterials, electro-activation of spatial solitons in photorefractive crystals, the use of Si and Ge nanowires for the fabrication of electronic and optoelectronic nanodevices and the synthesis and characterization of the physical and structural properties of highly magnetic FePt nanoparticles. He is co-author of 90 scientific papers on international journals, 4 European patents and 1 USA patent.

ELENCO DELLE PUBBLICAZIONI SU RIVISTE INTERNAZIONALI CON ?PEER REVIEW?

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