Prof. Demosthenes Polyzos
Department of Mechanical & Aeronautical Engineering
Vice Rector for Research & Development
University of Patras

An Overview of the University of Patras

UNIVERSITY OF PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

University of Patras

- It was founded in 1964
- 3rd in size University in Greece
- 1274 overall personnel
- Academic Staff: 738
- Scientific staff: 164
- Administrative staff: 372
- 30.254 students
- 3.825 postgraduate students

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University of Patras

- 2656 thousand sq.m.
- 2 Campuses (2nd in Agrinio)
- More than 40 buildings &
  131 teaching classes, laboratories, computer centers, machine centers, construction units and so on.
- 24 Departments
  (3 Departments in Agrinio)

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Applied Mechanics Laboratory (AML) is in operation since 1980. It is part of the Department of Mechanical Engineering and Aeronautics, University of Patras (UoP). AML/UP deals mainly with the general field of STRUCTURES & MATERIALS giving emphasis in the field of Composite Materials and Structures.

Faculty Members

Prof. D. Polyzos

Prof. V. Kostopoulos

Prof. D. Saravanos

Prof. T. Philippidis

Ass. Prof. T. Loutas

Applied Mechanics Laboratory
Mechanical Engineering & Aeronautics
University of Patras

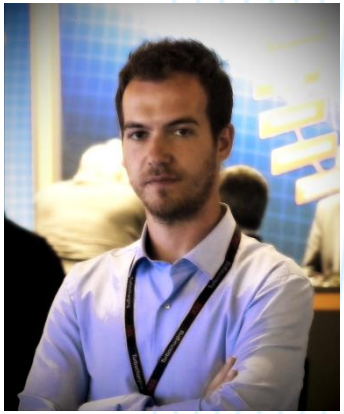
Prof. Demosthenes Polyzos

Research Activities of Prof. D. Polyzos

Mechanics: Direct and inverse wave scattering and radiation problems in acoustics, electromagnetism, elasticity, thermoelasticity and strain gradient elasticity. Wave propagation in waveguides, composite, non-homogeneous materials and biomaterials. Non-destructive Testing through wave propagation phenomena (Acoustic Emission, Ultrasonics, Acousto-ultrasonics, Laser scattering). Fracture mechanics. Homogenization techniques. Mechanical vibrations and vibration isolation. Mechanics of materials and biomaterials with microstructural effects.

Computational Mechanics: Numerical analysis with the Boundary Element Method (BEM) and Finite Element Method (FEM). Numerical analysis through meshless methods. Numerical analysis through FEM/BEM and hybrid Meshless/BEM numerical methods.

Haris Kokkinos



CV of Haris Kokkinos

Mr. Charilaos Kokkinos obtained his degree from the Department of Mechanical Engineering & Aeronautics of the University of Patras and then worked for 3.5 years at CERN, as a researcher at the TE-MSC-MDT section. He has participated in numerous international conferences and he has written several articles for well known engineering magazines. He has also co-founded an engineering spin-off company. His specialization is in the fields of simulation driven product development. Mr. Kokkinos has a high level of expertise in multi-phase finite element analysis (FEA) of superconducting magnets.

UPATRAS - CERN collaboration so far…

- MoU between CERN and Upatras in the framework of FCC (Future Circular Collider) signed by Michael Benedict, Study Leader of FCC-CERN and Prof. Venetsana Kyriazopoulou, Rector of the University of Patras

- Collaboration between CERN-Engineering Department and UPatras signed by Dr Roberto Losito, Head of CERN-Engineering Department and Prof. Demosthenes Polyzos, Vice Rector of Research & Development of the University of Patras.

- Contribution of Upatras to CAST experiment at CERN. Spokesperson for the Upatras Prof. Konstantin Zioutas

CERN

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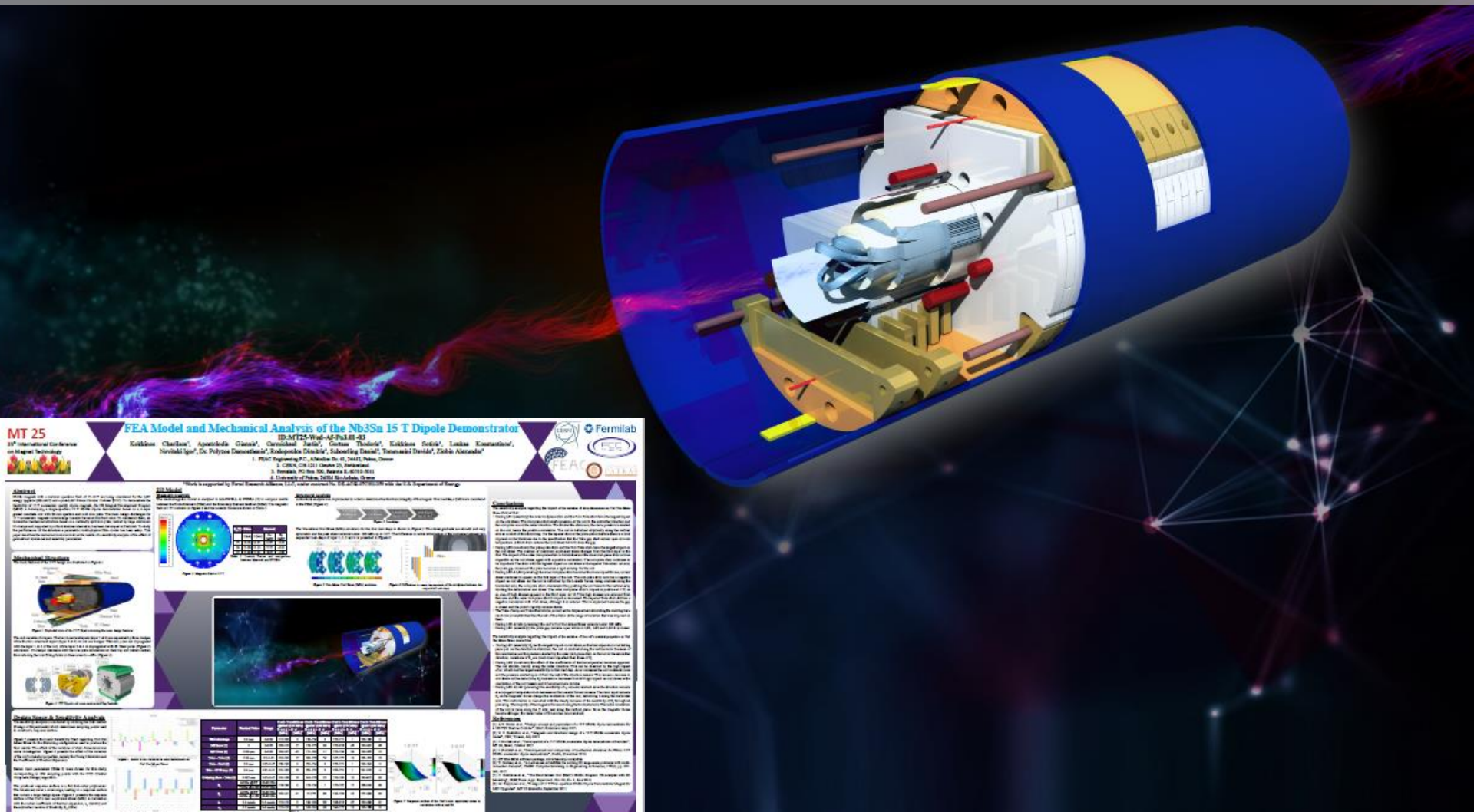
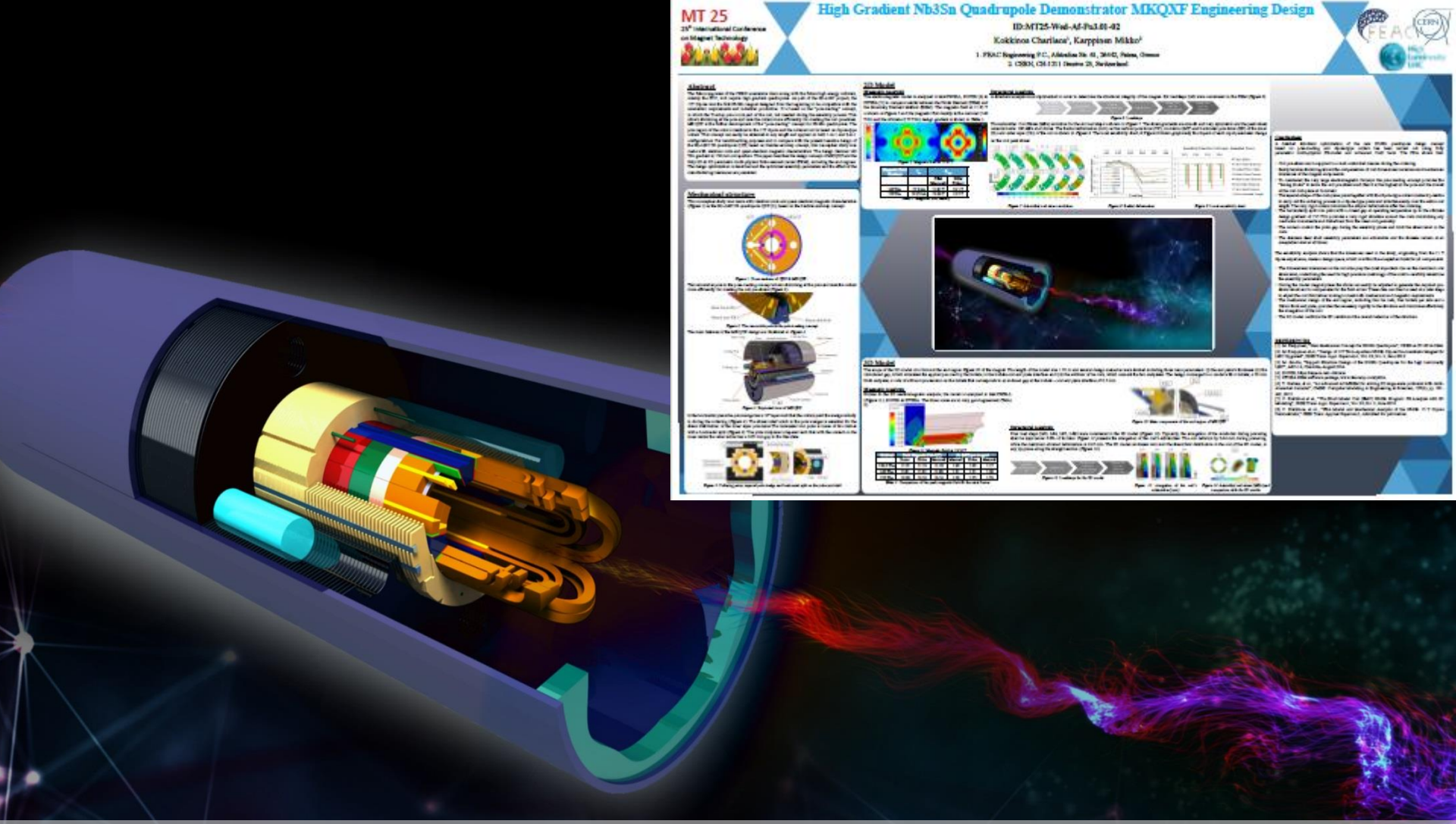
Design of the 15T superconducting Dipole magnet for the Future Circular Collider (FCC)





Design of the high gradient superconducting Quadrupole (MKQXF) for the High-Luminosity LHC (HL-LHC)

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Thank you