



IEEE Student Branch Pavia



University of Pavia

## SEMINAR

### Assessing safety in mm-wave applications

17<sup>th</sup> February, Aula Seminari – D floor – 5 pm

**Pedro Fidel Espin Lopez**

Division of Oncology, IEO (European Institute of Oncology), Milan

**Abstract** Breast cancer is a leading disease worldwide, and the success of medical therapies is heavily related to the availability of breast cancer imaging techniques. A possible alternative investigated in recent years is based on microwave and mm-wave imaging system. When a mm-wave system is placed into a near-field biological environment a feasibility study on safety exposure limits must be realized. Techniques about how to assess safety through the HFSS software package will be discussed.

**Short Bio** Pedro Espin was born in Bullas, a small town in the province of Murcia, the southeast of Spain. He carried out his secondary-school studies at Liceo Scientifico “Alquibla”, in his hometown. He received the Diploma of Scientific Subjects in July 2007. In September 2008, he enrolled Telecommunication Engineering course at the Technical University of Cartagena, Spain, where he spent three years. In September 2011, he moved to Edinburgh, where he completed his Bachelor in the Napier University of Edinburgh. He got the degree of Telecommunications Engineering in October 2012. He attended the Master course of Electronic Engineering in Cartagena. He spent six months at the Microwave Laboratory of the University of Pavia, in Pavia, Italy, where he prepared his master thesis. He graduated in May 2015. He is now a researcher at the Istituto Europeo di Oncologia in Milan, developing part of this work at the University of Pavia.

#### Organizer

Enrico **Massoni**

#### IEEE SB Pavia

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