



Prof. A. H. CASTRO NETO

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2D Materials: Science and Technology

10:30 am, Tuesday, October 16th 2018

J. Heyrovský Institute

Rudolf Brdička Lecture Hall

Prof. Antonio H. Castro Neto is a materials scientist and condensed matter theorist who is achieved world recognition for his works in rare earths, actinides, and two-dimensional (2D) materials such as transition metal dichalcogenides, and graphene, including conception, characterization, theoretical modelling, and development of transformative technologies based on two-dimensional crystals. He became one of the leading theorists in the study of graphene and (in Boston University) a collaborator of Prof. Sir Andre Geim and Prof. Sir Konstantin Novoselov, winners of the 2010 Nobel Prize in Physics for the discovery of graphene. Graphene Research Centre (GRC) managed by Prof. Castro Neto is one of the first and the best known research centre in the world to explore the properties of graphene.

In 2014 established Centre for Advanced 2D Materials (CA2DM) led also by Prof. Castro Nero explores 2D crystals beyond graphene and their industrial applications in several different industrial sectors such as energy, water, food, and environment. In 2016, Prof. Castro Neto founded 2D Materials (2DM) Pte Ltd in Singapore for the development of high quality graphene, and in 2017 he founded MADE Advanced Materials Pte Ltd for the development of graphene composites with carbon and glass fibres.

Prof. Castro Neto has authored more than 300 manuscripts and has published in prestigious journals incl. Science, Nature Materials, Nature Physics, and Physical Review Letters, and has over 50,000 citations; Hirsch Index: 87.

Since the isolation of graphene in 2004, the field of 2D materials is one of the fastest growing fields in science and Technology. Prof. Castro Neto will review in this talk some of the latest developments in this fast growing field.