



Applied Physics using atomic-nuclear techniques. An overview in the INCT-Project

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Applied Physics is an area of great visibility and discusses with different areas in an interdisciplinary way. Its applications are broad and can bring together different professionals with different backgrounds and performances. This seminar will present an overview of the latest work carried out by the applied physics group of the ICNT-FNA project. The group is very active and several research are being performed. Applications have been made with different uses of ion beam, X-rays and gamma rays to study materials and physical processes and properties. The physics applied studies presented aim to give a general idea of the use of these nuclear-atomic techniques carried out by INCT-Brazilian researchers. It is hoped to give an idea of the type of research being carried out in this part of the project which is so broad and involves both low and high energy nuclear physics. This work also aims to help future researchers to identify research possibilities with applied atomic-nuclear physics. Knowledge of the concepts of nuclear and atomic physics are important for the development of studies in different areas such as: Radiation damage to electronic devices, Development of new detectors, Cultural heritage materials objects studies, Radiocarbon analysis, Soil studies and adsorption of chemical elements in these, etc.

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