

Materials characterization using Synchrotron Techniques: Current Capabilities and Future Possibilities

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This talk describes some of the most used experimental techniques that have been developed to characterize and study materials using Synchrotron Radiation facilities. Reviewing the latest developments in the field done at the actual Brazilian Light Source (UVX), focus the attention in the advantage of this sophisticated techniques to extract the maximum of information on a single experiment. Taking into account that Brazil will be involved in the construction of a third generation source (Sirius - <http://lnls.cnpem.br/sirius/>), designed to be one of the most advanced in the world, the future experimental possibilities related to material science will be discussed in some detail.