



Initiatives at the Brazilian Synchrotron Light Laboratory: focus on nanoscience and nanotechnology

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The development of synchrotron light sources and high resolution microscopies in the last thirty years has been crucial to the deeper understanding of materials at atomic scale. In this context, the Brazilian Synchrotron Light Laboratory (LNLS), Campinas-SP, Brazil, has been operating as a multi-user facility, open to the scientific and technological communities from Brazil and abroad since 1997. The LNLS has a synchrotron light source of 1.37 GeV, associated laboratories, such as the electron microscopy laboratory, and support laboratories, being the only one of this type in Latin American (see www.lnls.br). In the last years, special programs in structural biology and nanoscience have been developed, exploring the unique facilities at LNLS. Targeting new opportunities, the LNLS started recently joint-projects with industrial partners, focusing investments in instrumentation for advanced characterization of strategic materials, such as heterogeneous catalysts. Examples and perspectives will be discussed in this talk.