

Present Facilities and instrumentation for nuclear physics in Mexico: More than 70 years of nuclear studies

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Since the 1950s, the development of nuclear studies in Mexico has had a notable presence at an international level. The proximity of important North American institutions has been, without a doubt, a determining factor in the development of nuclear sciences in Mexico. Many researchers of great relevance in the development of Nuclear Physics in Mexico for the second part of the 20th century have had some type of training or established some close collaboration with North American institutions. In the area of nuclear astrophysics, particularly during the 80s and 90s, and since the beginning of the 21st century and to date, close collaborations have been maintained between the University of Notre Dame, ININ and IFUNAM. Presently, this old collaboration has been extended to Spanish, Portuguese, Greek and Italian Institutions. At the same time, Mexico has a relevant infrastructure for carrying out low-energy measurements, with up to 5 active accelerators and a research reactor, as well as an enormous, fairly recent development of instrumentation, which includes supersonic jet targets, high segmentation detectors and digitizing data acquisition systems. In this talk, we will give some details of all these elements for research in low-energy nuclear astrophysics and also about previous and recent research.

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