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Future Nuclear Physics Facilities Around the World - how we compete and how we collaborate

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Large-scale nuclear physics facilities in the world are over-viewed, following the discussions at “Nuclear Science Symposium” in May 2013 at IFNF Frascati, organized by the IUPAP Working Group 9 whose major task is to sketch a world-wide framework for the key issues in nuclear science research for the next 10 to 20 years. Up to now experimental nuclear physics has advanced based on firm international competitions and collaborations. However, as of to date nuclear physics research has advanced to a stage that requires the construction of facilities often beyond the capacity of a single nation. The price tag for an international user facility may not be as large as projected for the International Linear Collider (ILC), but the sum of the costs for the construction and running of all the existing and proposed nuclear-physics facilities is reaching the level of the ILC. This also implies that there soon will be not only budgetary limitations but also human resources shortages to launch a future facility. Clearly this fact needs to be recognized and efforts made to enhance worldwide cooperation while keeping a good balance among domestic, regional (Europe-Africa, Asia-Oceania, and North-South America), and truly international projects.

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