

## Compact application facilities development in China

Several compact application facilities have been designed and developed for space science study and cancer therapy by IMP (Institute of Modern Physics, Chinese Academy of Sciences) based on technical developments and plentiful experiences from HIRFL-CSR and HIAF. For the complicated space environment simulation and related science research, the SESRI (Space Environment Simulation and Research Infrastructure) and PREF (Proton Radiation Effects Facility) are constructed to ensure the safe operation of spacecraft and the health of astronauts in the space environment. In addition, the second generation of cancer therapy facility is also designed and optimized. A strict design, fabrication and installation process has been built to guarantee stable and reliable operation for the developed facilities.

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**Session Classification:** Facility Overview