

International Workshop on Breakdown Science and High Gradient Technology (HG2021)

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Overview of High Gradient Research Activities at IHEP

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For the CEPC and HEPS projects at IHEP, S-band 3 meters long accelerating structure has been developed. The operating frequencies are 2856 MHz and 2998.8 MHz respectively. The two designs adopted rounding shape cell and internal water cooling. The CEPC structure has finished high-power test in the case of using the energy doubler. The peak power into the structure is 155.4 MW. The design of HEPS coupler is improved. At present, the first accelerating structure has completed. The matching, cold test and high-power test have finished. With the support of the Key Laboratory Fund at IHEP, an X-band open type accelerating tube has been developed with 24 cells, two matching cells and two couplers.

Summary

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Session Classification: Session 1