

Reliability maintenance of microwave sources for BEPCII Linac

Tuesday, 12 November 2019 10:30 (1h 30m)

The injector linear accelerator (Linac) for the upgrading project of Beijing Electron Positron Collider (BEPCII) was completed in 2007, and has been operated smoothly for almost 12 years. Some reliability maintenance in the system of microwave sources has been carried out over the last few years to ensure the beam quality. The maintenance jobs include: 1) monitoring the Six Reference Signal Converter (SRSC) and 60 W continue wave (CW) solid state amplifier (SSA) weekly; 2) upgrading the thermostat for SRSC; 3) diagnosing the fault of phase shift keying (PSK) and repairing; 4) detecting the oscillation of 1 kW pulse SSA. Because of the timely reliability maintenance, total tripping time of microwave sources per year has been less than 2.5 hours in the successive 3 years since 2016.

Primary author: Dr SHI, Hua (高能所)

Co-authors: 李, 京国 (高能所); Ms 张, 敬如 (高能所); 贺祥

Presenter: Dr SHI, Hua (高能所)

Session Classification: Poster Session