

The 2023 International Workshop on the High Energy Circular Electron Positron Collider

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CEPC beam instrumentation

The CEPC beam instrumentation system is composed of the current intensity measurement, beam position measurement, profile measurement system, Synchrotron r light diagnosis system, bunch length measurement system, beam loss measurement system, tune measurement system and feedback system. This talk will give a general introduction about the design principles, basic parameters, budget composition of each subsystem. The current research progress, especially the latest results in the self-developed beam position detector electronics and feedback system will be involved too.

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