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Coaxial Input Coupler Design For Wuhan Advanced Light Source

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The fourth generation of synchrotron radiation sources will be constructed in Wuhan. The RF system of the storage ring provides 600kV voltage to the beam through a 500MHz normal conducting cavity. A coaxial coupler is designed for the 500 MHz cavity to input 150kW power. The coupler was modified from KEK-B. We use a high-power ceramic disk window design and under over cut window structure. The fabrication of the coupler is underway.

Funding Agency

Footnotes

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Yes

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