



Contribution ID: 2153 Contribution code: TUPL009

Type: **Poster Presentation**

Commissioning of the S-band RF Transverse Deflecting Cavity at Dalian Coherent Light Source

Tuesday, 9 May 2023 16:30 (2 hours)

Dalian Coherent Light Source (DCLS) is an extreme ultraviolet free-electron laser (FEL). The measurement of the longitudinal phase space (LPS) of electron bunch is vital to a FEL facility. In order to measure the LPS, a S-band RF transverse deflecting cavity (TDS) has been installed and commissioned at DCLS facility. This paper will introduce the TDS physical layout and commissioning results with electron bunch.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary authors: SUN, Jitao (Dalian Institute of Chemical Physics); LI, Xinxin (Dalian Institute of Chemical Physics); YU, Yong (Dalian Institute of Chemical Physics); YANG, Jiayue (Dalian Institute of Chemical Physics); LI, Zongbin (Dalian Institute of Chemical Physics); DING, Hongli (Dalian Institute of Chemical Physics); SHI, Lei (Dalian Institute of Chemical Physics); LI, Qinming (Dalian Institute of Chemical Physics); WANG, Wei (Dalian Institute of Chemical Physics); WANG, Qian (Dalian Institute of Chemical Physics); GUO, Chenglin (Dalian Institute of Chemical Physics); TAO, Kai (Dalian Institute of Chemical Physics); ZHAO, Feng (Dalian Institute of Chemical Physics); LIU, Ming (Dalian Institute of Chemical Physics); WANG, Qianhan (Dalian Institute of Chemical Physics); XU, Bo (Dalian Institute of Chemical Physics); YIN, Feiyang (Dalian Institute of Chemical Physics); ZHOU, Jiami (Dalian Institute of Chemical Physics); CHENG, Gongkui (Dalian Institute of Chemical Physics); GAO, Meng (Dalian Institute of Chemical Physics); CHEN, Zhichao (Dalian Institute of Chemical Physics); HE, Zhigang (Dalian Institute of Chemical Physics); TIAN, Yuhuan (Dalian Institute of Chemical Physics); WU, Guorong (Dalian Institute of Chemical Physics); DAI, Dongxu (Dalian Institute of Chemical Physics); ZHANG, Weiqing (Dalian Institute of Chemical Physics)

Presenters: YU, Yong (Dalian Institute of Chemical Physics); YANG, Jiayue (Dalian Institute of Chemical Physics)

Session Classification: Tuesday Poster Session

Track Classification: MC2: Photon Sources and Electron Accelerators: MC2.A06: Free Electron Lasers