



Contribution ID: 1894 Contribution code: TUPL075

Type: **Poster Presentation**

Multi-color FEL generation through a chirped electron beam bunch train

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

We demonstrate a simple method to generate two-color or multi-color soft x-ray FEL pulses. This method mainly uses a chirped electron beam working together with an EEHG like modulator and chicane setup to produce wide electron beam bunch train. And this bunch train can be used to generate multi-color FEL pulses. By tuning the configurations and parameters of the method, we can easily adjust the property of the multi-color FEL pulse.

Funding Agency

Footnotes

I have read and accept the Privacy Policy Statement

Yes

Primary author: QI, Zheng (Shanghai Advanced Research Institute)

Co-author: FENG, Chao (Shanghai Advanced Research Institute)

Presenter: QI, Zheng (Shanghai Advanced Research Institute)

Session Classification: Tuesday Poster Session

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