



Contribution ID: 147

Type: **Oral**

## Start-to-end beam dynamics simulation

*Thursday, 18 May 2023 16:10 (15 minutes)*

The start-to-end beam dynamics simulation plays an important role in accelerator design performance optimization.

A parallel beam dynamics framework, IMPACT code suite, has been used in start-to-end beam dynamics optimization of linear accelerator design of an x-ray FEL light source. In this talk, we will present the physical and numerical models in this framework, show an application example, and discuss what needs to be included for the future linear collider study.

**Primary author:** QIANG, Ji (LBL, BERKELEY)

**Presenter:** QIANG, Ji (LBL, BERKELEY)

**Session Classification:** Accelerator: Beam Dynamics

**Track Classification:** Accelerator: Beam Dynamics