



Contribution ID: 362

Type: talk

Status and future perspectives of the EuPRAXIA project

Thursday, September 19, 2019 9:40 AM (30 minutes)

The Horizon2020 design study EuPRAXIA was started in 2015. The EuPRAXIA consortium is formed by 41 institutes from Europe, Asia and US and has the goal of developing the conceptual design of a plasma accelerator with superior beam quality and with pilot applications. The conceptual design report will be published in October 2019 when the design study is completed. Improvements in the understanding of beam quality in plasma accelerators and the EuPRAXIA solutions towards improved quality are discussed. The conceptual design of the proposed future large research infrastructure EuPRAXIA is presented and a possible distributed implementation model in Europe is explained. Future perspectives of the proposed EuPRAXIA infrastructure and the possible next steps are discussed.

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Session Classification: Plenary Session 7

Track Classification: Invited Plenary Talk