



Contribution ID: 11

Type: **invited talk**

Beam manipulation with Velocity Bunching for PWFA applications

Monday, 14 September 2015 12:00 (30 minutes)

SPARC-LAB is exploring the PWFA scheme by using multi-bunch electron beam as driver to excite resonantly the plasma in a capillary discharge. Velocity bunching is used to generate the train of short (<100fs) bunches with the temporal spacing required to achieve the proper accelerating field and to accelerate the trailing witness bunch with low energy spread. Comparison between simulation and experimental results will be presented and future plan will be outlined

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Session Classification: Plenary 2