



Contribution ID: 11

Type: Talks

## A Capture Section Design for the CLIC positron source

*Friday, 26 June 2009 09:30 (30 minutes)*

For the next electron-positron linear colliders (ILC and CLIC) it is important to design a capture section and acceleration/transport line to the damping ring that maximizes the yield of the captured positrons and transforms the beam parameters in order to make them suitable for injection/stacking into the damping ring.

I will present a capture section and pre-accelerator design for the CLIC positron source, in the baseline configuration (non polarised positrons), together with simulation results of the captured beam. I will also discuss the changes to be applied for the case of polarised positrons.

**Primary author:** VIVOLI, Alessandro (CERN)

**Presenter:** VIVOLI, Alessandro (CERN)

**Session Classification:** Capture

**Track Classification:** Talks