



Contribution ID: 22

Type: **invited talk**

## Overview on advanced diagnostics for High Brightness Beams

*Thursday, 17 September 2015 08:30 (40 minutes)*

Advanced diagnostics are essential tools in the development of plasma-based accelerators. The accurate measurement of the quality of beams at the exit of the plasma channel is crucial and will help also to optimize the parameters of the plasma accelerator. 6D electron beam diagnostics will be reviewed with emphasis on emittance measurement, which is particularly complex due to large energy spread and strong focusing of the emerging beams.

**Primary author:** CIANCHI, Alessandro (ROMA2)

**Co-authors:** VACCAREZZA, Cristina (LNF); CHIADRONI, Enrica (LNF); VILLA, Fabio (LNF); BISESTO, Fabrizio Giuseppe (LNF); ANANIA, Maria Pia (LNF); FERRARIO, Massimo (LNF); CASTELLANO, Michele (LNF); POMPILI, Riccardo (LNF); SHPAKOV, Vladimir (LNF)

**Presenter:** CIANCHI, Alessandro (ROMA2)

**Session Classification:** Plenary 7