



HEP EUROPEAN VITTA



Summary report for Vinca Belgrade

<http://www.vinca.rs/hep>

As foreseen in MoU,

- **Main activity focused on CLICdp studies**
- With 3.2 FTE per year, 1 CLIC physics related PhD thesis ongoing
- **Studies: Higgs physics** (3 analyses, 1 completed, publication in leading journal in preparation), **forward region studies** (machine induced background in luminosity measurement- completed and published in a leading journal, forward electron tagging ongoing).



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Publications in 2013

- S. Lukic, I. Bozovic Jelisavcic, M. Pandurovic, I. Smiljanic, Correction of beam-beam effects in luminosity measurement in the forward region at CLIC, JINST 8 P05008, May 2013 (also as LCD-Note-2012-008).
- Contribution with a Higgs related study to: Physics at the CLIC e+e- Linear Collider -- Input to the Snowmass process 2013, July 2013, arXiv:1307.5288 [hep-ex].

5 CLIC related talks at LCWS13 Tokyo, ECFA LC2013 Hamburg, XII-th International School, The Actual Problems of Microworld Physics in Gomel, Belarus and Instrumentation for Colliding Beam Physics Conference, Novosibirsk (in February 2014)



HEA & RONA VITIC



Plans for 2014

- Publication in a leading journal of the $H \rightarrow \mu\mu$ analysis (beginning 2014)
- Completion of $H \rightarrow ZZ$ and $H \rightarrow WW$ analyses and publication until the end of the year
- Possible involvement of another PhD student

AIDA-2 participation

- Test-beams (in terms of developing expertise i.e for DAQ)
- Software development for test-beam operations
- Test-beam data analysis

Concerns

Only LHC related activities are recognized and supported by the local funding agency as 'CERN-related'. Advertising of CLIC studies by CERN to participating countries is important.