Contribution ID: **281** Type: **talk**

Towards a proposal for an Advanced Linear Collider

Monday, September 25, 2017 12:00 PM (30 minutes)

This report is presented on behalf of the workshop organising committee chaired by B. Cros and P. Muggli; workshop presentations are available at https://indico.cern.ch/event/569406/.

Advanced and novel accelerators have achieved electron energy gains in the multi-GeV range, relevant for high energy physics applications. Several remaining challenges have been identified and need to be tackled in order to deliver the design of an advanced linear collider by 2035. This goal requires larger projects and broader coordination than has been carried out to date.

A preliminary scientific roadmap towards the design of an advanced linear collider is proposed as the outcome of the ANAR2017 workshop, organised at CERN in April 2017, on the initiative of the Advanced and Novel Accelerator panel of the International Committee for Future Accelerators (http://www.lpgp.u-psud.fr/icfaana/frontpage).
A study group aimed at realising an advanced linear collider will be created to coordinate the international preparation of a technical design report. In the short term, the first objective of this study group will be to provide input towards the update of the European strategy for particle physics.

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Session Classification: Plenary 2

Track Classification: Invited Plenary Talk