Statement on a Linear Collider Project in Japan as input to the European Strategy Process

The German Committee for Particle Physics (KET)

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In view of the recent discovery of a new Higgs–like particle at the Large Hadron Collider (LHC) at CERN and the recent proposal by the Japanese scientific community [1]) to host the International Linear Collider (ILC), the German particle physics community has discussed again the priorities for experiments at the high energy frontier. The results are summarised here as an addendum to the priorities described in a previous document submitted to the Strategy group [2,3]) which remain unchanged.

1. The successful running of the LHC and its experiments continues to be the recommendation with highest priority. This includes in particular the high luminosity upgrades of the LHC and the Phase-2 upgrades of the experiments, which currently constitute the only way to directly explore the multi-TeV energy regime.

2. The proposal of the Japanese community to host the ILC as an international project finds enthusiastic support in the German community. In view of the unique capabilities of such a facility for precision measurements of the newly discovered particle, the foreseen expandability to higher energies and the technical readiness of the project as documented in the Global Design Effort [4]) we strongly recommend to contribute actively to the realisation of this project.

KET, German Committee for Particle Physics

[1]) Future Strategy of Japanese High Energy Community, https://indico.cern.ch/contributionDisplay.py?contribId=121&confId=175067

[2]) Directions for Particle Physics in Europe, Statement by the German Committee for Particle Physics (KET), March 9th, 2006

[3]) Statement by the German Committee for Particle Physics (KET) on the European Strategy for Particle Physics, http://indico.cern.ch/contributionDisplay.py?contribId=113&confId=175067

[4]) ILC Technical Design Report, to be published (2013), http://www.linearcollider.org/GDE