

October 24, 2018

Statement on the ILC Higgs Factory : ‘Texas Statement’

Scientists from all over the world are now gathering together at the International Workshop on Future Linear Colliders (LCWS2018) held in Arlington, Texas with a firm determination to make the ILC a reality. Together with colleagues around the world, we hereby issue this ‘Texas Statement’ with unshakable conviction on its scientific case and to express our strong commitment to do whatever necessary for its success.

The ILC is the right new experimental facility to advance our understanding of the Universe. The ILC project has been developed by an international collaboration over three decades. We conceived it as the machine to lead the era of particle physics at the Terascale with the Higgs particle as the centerpiece. The discovery of the Higgs particle by the LHC fixed the needed energy, and we now have a concrete plan for the ILC Higgs factory. Subsequent measurements at the LHC further reinforced the importance of the precision Higgs studies. If scientifically justified by the findings of the precision Higgs study, the collision energy of the ILC can be easily upgraded. Throughout the period of ILC development, our original motivation has become increasingly clearer and stronger.

The ILC is a source of new innovative technologies. We also pride ourselves in the technology for the ILC. Global collaboration has made enormous progress in the development of the superconducting acceleration technology, improving its performance by quantum leaps. This technology, developed for the ILC, is now essential, for example, for the current state-of-the-art X-ray and neutron facilities. More innovations broadly benefitting science are in store as we proceed along our path.

Now is the time to move forward. The international community represented by the participants of LCWS2018 is committed to bring the ILC to its fruition. Once the expression of intention to host the ILC is issued by the Japanese government, we will greatly expand our own efforts and work with our respective governments ever more intensively to help achieve the necessary international agreements. We eagerly await the signal to proceed and, when the ILC starts in earnest, we will be ready to carry through on its promise.

Scientists attending LCWS2018
on behalf of the global Linear Collider Collaboration