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# FASER: recent results and perspectives

*Wednesday 15 May 2024 16:30 (15 minutes)*

FASER represents a novel experiment for LHC Run 3. The experiment, which is located 480 meters away from the ATLAS collision point and faces forward, is intended to look for neutral, weakly-interacting, and long-lived particles that go beyond the Standard Model and investigate high energy neutrinos of all flavors. FASER's most recent physics results will be discussed, as well as the experiment's prospects for the future. The fascinating and extensive physics program in the very forward region of the LHC collisions has been highlighted by studies of FASER2's physics potential, which has inspired the planned Forward Physics Facility (FPF). For the HL-LHC era, this would be a brand-new, specialized building to hold multiple novel experiments, including FASER2. The potential of the FASER2 in physics, together with the current state of technical investigations on the detector design, will be presented.

## Mini Symposia (Invited Talks Only)

## Plenary (Invited talks only)

**Presenter:** HSU, Shih-Chieh (University of Washington Seattle (US))

**Session Classification:** Minisymposium