

High Energy Physics

HEP_04 : Cosmological tests of fundamental physics

HEP_07 : SiW ECAL

HEP_09 : ILC heavy flavors

HEP_10 : Strong dynamics beyond the Standard Model at LHC and Future
Colliders

HEP_11 : Looking for dark-sector long-lived particles with ATLAS

HEP_12 : Stronger together to search for new heavy resonances in ATLAS

HEP_13 : Higgs physics at the ILC

Flavour Physics

FLAV_03 : Flavour Physics and the theoretical challenge for precision

FLAV_05 : B flavour and Time Dependent CP violating measurement with Belle

II

Hadron Physics

HAD_02 : ALICE forward upgrade for high precision high statistics Single- and Di-muon measurements at the LHC

HAD_03 : Observing critical fluctuations in the dynamics of heavy-ion collisions

HAD_04 : QGP tomography with jets

Neutrino Physics

Nu_06 : ND280-Upgrade and the neutrino cross section measurements in T2K

Nu_07: The multi-PMTs option for the Hyper-Kamiokande detector

Nu_08: The Development of the electronics and its synchronization for Hyper-Kamiokande

Muon Physics

MU_03 : Study of Atmospheric Muons and Their Impact to Low Energy Background in Rare Process Experiments

MU_04 : Lepton flavor violation: $\mu \rightarrow e$ transitions, and the τ sector

Detector R&D

- D_RD_16** : Development of advanced Monolithic Pixel Detector
- D_RD_17** : Development of a high-speed detector readout system
- D_RD_18** : Toward the technology choice for the TPC of the ILD detector
- D_RD_19** : LiquidO R&D novel detector concept for neutrino experiments
- D_RD_20** : New Challenge for Internal Pixel Tracker construction (2019-2024)
- D_RD_21** : Direction-sensitive dark matter detection with gaseous tracking
Detectors
- D_RD_22** : Innovative diamond based detector development for charged
particle detection

Accelerator R&D

A_RD_10 : ATF2 studies and preparation for ILC

A_RD_13 : High intensity positron sources for circular colliders (SuperKEKB, FCC –ee)

A_RD_14 : Influence of vibration on the SuperKEKB collider performance

A_RD_15 : Development of an optical cavity system for the advanced photon sources based on Compton backscattering

A_RD_16 : Magnetic field monitoring and management for Superconducting RF cavities

A_RD_17 : Investigation of an alternative path for SRF cavity fabrication and surface processing

A_RD_18 : Suppression of Field emission by improvements in the clean assembly work and the use of diagnostic tools for SRF cavities and cryomodule tests

A_RD_19 : Heat Treatments for Low Losses High Gradient SRF Cavities

A_RD_20 : Innovative superconducting surfaces applied to cavity scale

A_RD_21 : Advanced optimization algorithms and neural networks for accelerators control

Computing

COMP_04 : Evolution of the computing environment for high-energy and
astroparticle experiments

COMP_05 : Computing at Belle II