21 October 2011

Working group: Flavour Physics and Symmetries (YK and TN)

Physics topics covered:

* Flavor Physics
	+ CP violation and rare decays in B, D and K mesons
	+ Charged lepton flavor violating processes: the m and t decays, m→e conversion
	+ Lorentz structure in the m and t decays
	+ Lepton universality
	+ Lepton number violating processes
* Symmetry and Precision Experiments
	+ Electric dipole moment (EDM) for electron, m, t, neutron, proton, deuteron
	+ Anomalous magnetic dipole moment m g-2
	+ CPT tests antiproton and other particles, K anti-K and B anti-B oscillations
	+ Lorentz invariance tests
	+ Baryon number conservation tests: neutron-antineutron oscillation

Facilities

* Currently possible not necessarily used for particle physics
	+ B, D, and t
	LHC, BEPC II
	+ K
	CERN, JPARC
	+ muons
	PSI, TRIUMF, J-PARC, FNAL, RAL
	+ neutrons
	PSI, ILL, Garching FRM II
* Future
	+ B, D, and t
	LHC, super B factories, Tau-Charm factories
	+ Kaon
	CERN, JPARC, Project-X@FNAL
	+ muons
	PSI, TRIUMF, J-PARC, Project-X@FNAL, (RAL?, CERN?, ESS?)
	+ neutrons
	PSI, ILL, Garching FRM II, (ESS?, Gatchina?)

How to interact community

* Invite some key persons to the meeting?
* Invite written contribution