

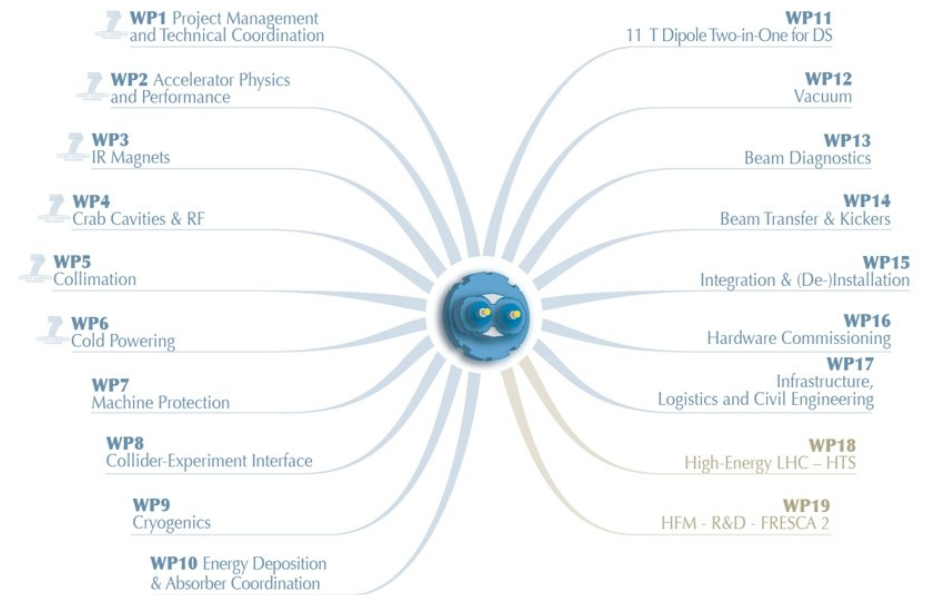
WP4 Coordination, Meeting 1, Sep 3, 2014

HL-LHC: Total 19 Work Packages

- CERN-MAC, Steering Committee & coordination board
- Parameter Layout Committee
- Technical Committee

Under Work Package 4

- Crab cavities (advanced stage)**
- Harmonic System (Design study)
- ADT upgrade (input from LHC run)



WP4 crab cavity scope (CERN/USLARP/UK)

- SC cavities validation
- Test 2-cavity cryomodule in SPS in 2017
- Construction of 16 modules for the LHC before 2013

Present structure:

Cavities/Cryomodule (MME/RF), RF Power (RF-PM/FB/CS), Integration (CCTC)

Required Documentation

Past Documentation:

Functional Specification v1: CERN-ACC-NOTE-2013-003, Feb 2013

Milestones: Total 4 (MP, CC Specs, OP scenarios & downselection) - completed

Deliverables (4.1 & 4.2): Operational scenarios & RF System

Conceptual specs - Total 5 - erabs, harmonic system + ADT

Cavity engineering spec & annexes (edms 1389669)

Future Documentation (up to Oct 2015):

Prelim Design Report: **Draft due Sep 5**

Functional spec update (Oct 2014)

Dressed cavity engineering spec & annexes (Oct 2014)

Deliverables 4.3: SPS-CM Design (M38)

D4.4: LHC CC System & Tech design report (M48)

CDD Codes: LHCACF (CA, EQ, GA, HC, HT, LA, MC, TU, VT,..)

Meetings Etc..

Collaboration Meetings

Aug 2014: Niowave visit (quick update by Ofelia)

Oct 2014: Cavity fabrication kick-off meeting

Nov 2014: HiLumi-LARP Meeting, KEK-Japan

Feb 2015: (Place holder)

Apr 2015: HiLumi-LARP Meeting, FNAL

Other Meetings

WP4 coordination approx 1/month (shall we fix wed 4:30pm ?)

EN-MME weekly meetings + meetings with USLARP/UK/Niowave

CCTC integration meetings -SPS tests

Budget

2014: RF Power (300k), Cryomodule (230k), CCTC (50k), SM18 + fellows

2015: Clarify fellow requests (EN-MME (2), LLRF (1?), CCTC(?), Power(?))

2016-23: Cost review for HL-LHC foreseen for Jan 2015.