

Agenda of Working Group II: Commissioning, Operation, Automation, Testability

Wednesday, October 24, 8:30 – 10:30

Conveners: Hovater, Simrock

o Suggestion of Topics and Objectives of the Working Group:

1. Commissioning and operations:

- Define commissioning objectives
- Develop list of commissioning and operation procedures
- Describe procedures
- List of measurements, algorithms, applications, and signals needed for commissioning
- Describe measurements, algorithms, applications, and signals
- Lessons Learned from commissioning and operations
- Migrating to new hardware
- Maintaining spares as electronics evolves
- Supporting SC cavity commissioning with LLRF

2. Acceptance Tests:

- Defining tests (too little, too much, what is relevant)
- Field control
- Cavity and system interlocks
- Operability (changing parameters)
- Availability (includes exception handling)
- Reproducibility
- Maintainability, Upgradeability

3. Automation:

- Define meaning of automation
- Define requirements for LLRF and framework for implementation
- Define operator interfaces
- Define what needs to be automated
- Learn from existing "experimental" versions
- Identify what is missing and what we don't know
- Develop possible architecture(s) for automation
- Develop strategic plan for automation development
- Discuss framework for implementation of automation

4. Diagnostics:

- Hardware diagnostics
- Software diagnostics
- What is useful what is not