

# Preliminary subjects for the March 2018 Collaboration meeting

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# Preliminary list of topics (for discussion) #1

- General and introductory topics
  - Collaboration, people and contract status
  - Status of the Hollow e-lens and BBLR e-beam
  - Planned publications for 2018
- Experimental programme:
  - What we learned in 2017
  - Experimental goals with the existing (v1) and new (v2) set-ups for 2018
  - Associated needs for additional equipment, design, visits etc.
- Performance: progress and next objectives
  - Which gas? What we have learned, pro's and con's, vacuum issues for the gas selection
  - Limits to resolution, integration time, precision, differentiation of beams: What do we know? What are the 'hard' limits? What do we need to understand?
- Gas-curtain generation
  - High-pressure and low pressure simulations: What we have learned, what we would like to learn
  - Putting both together: Realistic expectations for the final gas jet, absolute signal and signal/noise

# Preliminary list of topics (for discussion): #2

- Optical system:
  - What we have learned in 2017, objectives for 2018?
  - Blackening of chambers? What would be required to set-up an LHC-compatible instrument?
- LHC fluorescence measurement
  - Status of the set-up
  - Experimental plans for 2018
  - What we hope/fear to learn, and how this feeds-back to the design
- Issues for integration into the HEL
  - Update on e-lens parameters and interface
  - Electron trapping and build-up: Clearing electrodes?
- Objectives for the LHC-compatible (v3) instrument
  - Project management: Schedule, ECRs for LHC installation, risk analysis for interface equipment
  - What do we need to change or improve: input from gas jet, input from vacuum,
  - Design plans for 2018