

MYRRHA - CERN collaboration day, 27 February 2020

Proposal: "Cryogenics"

CERN Participants: [K. Brodzinski](#), [S. Claudet](#), [D. Delikaris](#)

MYRRHA Participants: [A. Fabich](#), [G. Bonthuys](#)

Topic:

- *Cryogenics*

Goal(s):

- *CERN to provide consultancy in the following items:*
 - Review (and design)
 - System definition and optimization
 - Interaction with industrial suppliers
 - Cryogenic plant performance measurements

Timeline: *until mid 2021, context study; design finalization towards procurement in 2022*

CERN support for this project is (0 = nice,, 5 = crucial): 4

Collaboration proposal

Benefits for MYRRHA:

- Experts input with design and operational experience of large cryogenic infrastructure

MYRRHA contribution:

- *MYRRHA staff present at CERN for 3 months (academic)*

MYRRHA technical contact: G. Bonthuys

Benefits for CERN:

- *Return on high availability cryogenic systems and strategy for improvements*

CERN contribution:

- *0.5 FTE.y equivalent (academic)*

CERN technical contact: D. Delikaris