

**MU-CML**

# **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome

*Monday, 15 July 2024 15:00 (5 minutes)*

- New colleague for Helmholtz Coordination at GSI: Luminita Mikhail
- Composition of Review Panel – not final yet
- Future Activities (not: Future Challenges) (up to 1 page)
- Strategic Partnerships (up to 1 page) (institutionalized partnerships, e.g. Partner-Unis, Networks, Clinics, ...) incl. Third-party projects?
- Vol. I: GSI responsables of programs send updated texts by July 19 to L. Mihaila (K. Füssel)! next draft of joint version on seafire by July 22/23 (L. Mihaila)
- Retreat end Aug. / beginning of Sep. Dates to be fixed
- Give first version to JSC by October 1 (JSC Oct. 22-23)
- Presentation to Supervisory Board of GSI → GSI Aufsichtsrat: Meeting Nov. 14, 2024
- Deadline final Report to Helmholtz: 2 months before Center Evaluation -> Feb. 1, 2025 (strict!)

Contribution ID: 7

Type: **not specified**

## Status Report 2021 - 2024

*Monday, 15 July 2024 15:10 (20 minutes)*

<https://docs.google.com/document/d/1-aHG37XSgEgGq6t5mZruFpYXf-Gy8GggucW9cmcwqVI/edit?usp=sharing>

7-8 pages : Understanding the properties of hadrons and their excitation spectrum -> PANDA, HADES, CBM + FAIR Phase-0 worldwide (Jim++)

10-11 pages : Establishing the QCD phase structure and understanding the microscopic properties of QCD matter at vanishing and high net baryon densities -> HADES, CBM, ALICE (Andrea, Ralf, Ilya, TG, Silvia, Joachim, Hannah++)

10-11 pages : Understanding nuclear structure, nuclear reactions, and superheavy elements as well as their relevance for nuclear astrophysics -> NUSTAR + Neutrino from Livia (Christoph++, kindly include Livia to the writing team)

1 page : Understanding the origin of the matter-antimatter asymmetry and testing fundamental symmetries -> EDM at COSY, ALPs with CASPEr (Jörg, Frank++)

1 page each from above : Theory

**Presenters:** BAUSWEIN, Andreas (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); DÜLLMANN, Christoph Emanuel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); SCHEIDENBERGER, Christoph (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); MAAS, Frank (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); MARTINEZ PINEDO, Gabriel (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); ELFNER, Hannah (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); RITMAN, James (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI)); GALATYUK, Tetyana (TU Darmstadt / GSI); LEIFELS, Yvonne (GSI Helmholtzzentrum für Schwerionenforschung GmbH(GSI))