

Addendum No. 2

to the

**Memorandum of Understanding
for the COMPASS Experiment (NA58)**

Participation of

**A. Alikhanyan National Laboratory (AANL)
Yerevan, Armenia**

Between

The European Organization for Nuclear Research, “CERN”, an Intergovernmental Organization having its seat at Geneva, Switzerland, as Host Laboratory, and the COMPASS (NA58) Collaboration

on the one hand,

And

the A. Alikhanyan National Laboratory, Yerevan, Armenia

on the other hand,

Considering that:

Funding Agencies participating in the COMPASS (NA58) Collaboration have signed a Memorandum of Understanding dated 19 December 2012 setting out the responsibilities of the different participating Institutions and Funding Agencies (CERN-MoU-017, hereinafter referred to as “the MoU”);

The COMPASS (NA58) Detector has taken data in the CERN SPS beam until end 2022; the Collaboration has moved into the Analysis Phase;

A group led by Bakur Parsamyan from the A. Alikhanyan National Laboratory, Yerevan, Armenia, has expressed its wish to join the COMPASS (NA58) Collaboration in its Analysis Phase. Following initial informal contact and discussion in 2022, a formal request was presented to the COMPASS (NA58) Collaboration Board on 9 March 2023;

Particular fields of interest expressed by the A. Alikhanyan National Laboratory are the COMPASS “Generalized Parton Distributions” (GPD) programme, in particular the analysis and physics interpretation of the COMPASS data collected in 2016/2017, and the COMPASS “Transverse Momentum Dependent” (TMD) physics programme, in particular the analysis and physics interpretation of the COMPASS data collected in 2022;

It is understood as follows:**1. Introduction**

1.1. The purpose of this Addendum is to add the A. Alikhanyan National Laboratory to the list of collaborating institutions and Funding Agencies in the COMPASS (NA58) Collaboration in

conformity with the MoU and to lay down the terms of its participation in the COMPASS (NA58) Collaboration.

2. Approval of the Collaboration

- 2.1. After due consideration of the A. Alikhanyan National Laboratory's potential contributions to the COMPASS (NA58) Collaboration, the scientific potential and the human and financial resources available at the A. Alikhanyan National Laboratory, the COMPASS (NA58) Collaboration welcomes the participation of the A. Alikhanyan National Laboratory as a new collaborating institution.
- 2.2. The participation of the A. Alikhanyan National Laboratory in the COMPASS (NA58) Collaboration was formally approved by the COMPASS (NA58) Collaboration Board at its meeting on 2 February 2023 under the terms laid down in this document.

3. Terms of Collaboration

- 3.1. The A. Alikhanyan National Laboratory is added to the list of institutions collaborating in the COMPASS (NA58) Collaboration (Annex 1 of the MoU). The A. Alikhanyan National Laboratory is given a seat without voting rights in the Collaboration Board. At the time of signing this document, as a collaborating institution, it is represented by Bakur Parsamyan.
- 3.2. The A. Alikhanyan National Laboratory is added to the list of funding agencies (Annex 2 of the MoU) and is given a seat without voting rights in the Finance Review Committee. At the time of signing this document, as a funding agency, it is represented by the director of the A. Alikhanyan National Laboratory, Ani Aprahamian.
- 3.3. The Representative of the A. Alikhanyan National Laboratory as a collaborating institution is responsible for its activity and organisation of the contributions to the COMPASS (NA58) Collaboration.
- 3.4. By signing this Addendum, the A. Alikhanyan National Laboratory accepts all terms of the MoU including all Addenda and Amendments to the MoU, in particular all clauses on the responsibilities of the collaborating institutions.
- 3.5. Details on the current status of financial contributions are given in Annex 1.
- 3.6. Details on the current status of the tasks and responsibilities of the A. Alikhanyan National Laboratory within the COMPASS (NA58) Collaboration are given in Annex 2.

- 3.7. Details on the rights of members of the COMPASS (NA58) Collaboration affiliated with A. Alikhanyan National Laboratory to sign COMPASS (NA58) publications are given in Annex 3.
- 3.8. This Addendum becomes effective on the day its signatures are completed.

4. Signatures

- 4.1. For the purpose of signing this document, the COMPASS (NA58) Collaboration is represented by the Director for Research and Computing of CERN and by the Co-Spokespersons of the COMPASS (NA58) Collaboration.
- 4.2. For the purpose of signing this document, the A. Alikhanyan National Laboratory is represented by the director of the A. Alikhanyan National Laboratory.

DRAFT

Signed in two originals in the English language.

For the European Organization for Nuclear Research (CERN)

For the A. Alikhanyan National Laboratory

Signed in Geneva, Switzerland,

Signed in Yerevan, Armenia,

on

on

Joachim Mnich
Director for Research and Computing

Ani Aprahamian
Director of the A. Alikhanyan National Laboratory (AANL) Yerevan, Armenia

For the COMPASS (NA58) Collaboration

Signed in Geneva, Switzerland,

on

Bakur Parsamyan
Co-Spokesperson

Signed in Geneva, Switzerland,

on

Fulvio Tessarotto
Co-Spokesperson

Annex 1: Financial Provisions

- 1.1. According to a decision of the 24th COMPASS (NA58) Finance Review Committee held on 15 November 2021, no annual financial contributions are due in 2023 and beyond.

DRAFT

Annex 2: Tasks and Responsibilities of the A. Alikhanyan National Laboratory in COMPASS (NA58)

- 2.1. The group of the A. Alikhanyan National Laboratory in COMPASS (NA58) shall participate in the COMPASS GPDs physics programme (analysis and physics interpretation of the COMPASS data collected in 2016/2017) and the COMPASS TMDs physics programme (analysis and physics interpretation of the COMPASS data collected in 2022).
- 2.2. The group of the A. Alikhanyan National Laboratory shall contribute to service tasks (for example software development and maintenance, Monte-Carlo developments and simulations, data processing management, detector alignment via software) to be defined by the Analysis Coordinator and the sub-group conveners in consultation with the group.

DRAFT

Annex 3: Publications

- 3.1. In addition to clause 6.2 b) of the MoU, new COMPASS (NA58) members affiliated to the A. Alikhanyan National Laboratory are eligible to be listed as authors of publications only on analyses to which the group has actively contributed. Inclusion in the author list shall be decided by the Spokesperson(s) in consultation with the Analysis Coordinator, the sub-group conveners, and the group concerned.

DRAFT