

## **Addendum No. 3**

to the

### **Memorandum of Understanding for the SND@LHC Experiment**

**Participation of**

**Department of Physics and Materials Science  
Faculty of Science  
Chiang Mai University  
Chiang Mai, Thailand**

**Between**

The European Organization for Nuclear Research, “CERN”, an Intergovernmental Organization having its seat at Geneva, Switzerland, as Host Laboratory, and the SND@LHC Collaboration

on the one hand,

**And**

The Department of Physics and Materials Science, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand

on the other hand,

**Considering that:**

Funding Agencies participating in the SND@LHC Collaboration have signed a Memorandum of Understanding for the construction dated 8 July 2021 (CERN-MoU-2021-034) and a Memorandum of Understanding for the maintenance and operation dated 17 August 2022 (CERN-MoU-2022-045) setting out the respective responsibilities of the different participating Institutions and Funding Agencies (hereinafter referred to as “the MoUs”);

The CERN Research Board has approved the SND@LHC Experiment in its 236<sup>th</sup> meeting on 17 March 2021;

A group led by Waraporn Nuntiyakul from the Department of Physics and Materials Science, Faculty of Science, Chiang Mai University, Chiang Mai, Thailand (hereinafter referred to as “Chiang Mai University”), has expressed its wish to join the SND@LHC Collaboration;

Particular fields of interest expressed by the Chiang Mai University are software development and data analysis;

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

- 1.1. The purpose of this Addendum is to add the Chiang Mai University to the list of collaborating Institutions and Funding Agencies in the SND@LHC Collaboration in conformity with the MoUs and to lay down the terms of its participation in the SND@LHC Collaboration.

**2. Approval of the Collaboration**

- 2.1. After due consideration of the Chiang Mai University’s potential contributions to the SND@LHC Collaboration, the scientific potential and the human and financial resources available at the Chiang Mai University, the SND@LHC Collaboration welcomes the participation of the Chiang Mai University as a new collaborating institution.
- 2.2. The participation of the Chiang Mai University in the SND@LHC Collaboration was formally approved by the SND@LHC Institution Board at its meeting on 21 June 2023 under the terms laid down in this document.

### **3. Terms of Collaboration**

- 3.1. The Chiang Mai University is added to the list of institutions collaborating in the SND@LHC Collaboration (Annexes 1 of the MoUs). At the time of signing this document, as a collaborating institution, it is represented in the SND@LHC Collaboration by Waraporn Nuntiyakul.
- 3.2. The Chiang Mai University is added to the list of funding agencies (Annexes 2 of the MoUs). At the time of signing this document, as a funding agency, it is represented by the leader of the joining group, Waraporn Nuntiyakul.
- 3.3. The Representative of the Chiang Mai University as a collaborating institution (cf. clause 3.1) is responsible for the Chiang Mai University's scientific and technical contributions to the SND@LHC Collaboration and their organisation.
- 3.4. By signing this Addendum, the Chiang Mai University accepts all terms of the MoUs including all Amendments and Addenda and acknowledges its responsibilities as a collaborating institution.
- 3.5. Details on the current status of the tasks and responsibilities of the Chiang Mai University within the SND@LHC Collaboration are given in Annex 1.

### **4. Financial Provisions**

- 4.1. Details on the current status of financial contributions of the Chiang Mai University are given in Annex 2.

### **5. Validity**

- 5.1. This Addendum enters into force on the day its signatures are completed.
- 5.2. It remains valid as long as at least one of the MoUs is valid unless terminated before by the Chiang Mai University in accordance with the MoUs.

### **6. Signatures**

- 6.1. For the purpose of signing this document, CERN and the SND@LHC Collaboration are represented by the Director for Research and Computing of CERN and by the Resource Coordinator of the SND@LHC Collaboration, respectively.
- 6.2. For the purpose of signing this document, the Chiang Mai University is represented by its President.

Signed in two originals in the English language.

For the European Organization for Nuclear Research (CERN)

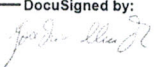
For the Chiang Mai University

Signed in Geneva, Switzerland,  
18 March 2024

Signed in Chiang Mai, Thailand,  
26 April 2024

on .....

on .....

DocuSigned by:  
  
E56B4195CB16486.....

DocuSigned by:  
  
765A76F3ABE8490.....

Joachim Mnich  
Director for Research and Computing

Pongruk Sribanditmongkol  
President

For the SND@LHC Collaboration

Signed in Geneva, Switzerland,  
Wolfgang Funk

on .....

DocuSigned by:  
  
CC6415E64ACC417.....

Wolfgang Funk  
Resource Coordinator

**Annex 1: Tasks and Responsibilities of the Chiang Mai University in  
SND@LHC**

- 1.1. The group of the Chiang Mai University in SND@LHC will participate in software development and data analysis.
- 1.2. The group of the Chiang Mai University in SND@LHC will participate in the experiment operation and data taking campaigns.

## **Annex 2: Financial Provisions**

- 2.1. In accordance with Article 12 of the construction MoU and Article 11 of the maintenance and operation MoU, the Collaboration and the Chiang Mai University have agreed that the latter makes a special one-time contribution to the SND@LHC collaboration amounting to 20'000 Swiss francs. This special one-time contribution has already been paid in 2023.
- 2.2. The yearly contribution of the Chiang Mai University, fixed by the SND@LHC Institution Board in accordance with Article 7 of the maintenance and operation MoU, amounts to 3'000 and 4'500 Swiss francs per scientist with a PhD degree in 2023 and 2024, respectively. The amount is subject to yearly revision by the Institution Board and to approval by the Finance Review Committee. The contribution due for 2023 has been paid.
- 2.3. CERN will issue invoices for the contributions as they become due.