



## **PROTOCOL ANNEXED TO THE COOPERATION AGREEMENT N. 518/2016**

### **STATUTE OF THE RESEARCH JOINT LABORATORY**

#### **“Joint Laboratory UNIME-SINANO of PETAscale computing and SPINtronic – PETASPIN”**

##### **Art. 1 – Institution of the Joint-Laboratory UNIME-SINANO**

The **University of Messina - Italy (UNIME)**, legally represented by the Rector, Prof. Pietro Navarra, and the **Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Science - China (SINANO)**, legally represented by the Director, Prof. Hui Yang, hereby “the Parties”, in compliance with the mutual cooperation agreement (n. 518/2016), **establish the research joint laboratory “Joint Laboratory UNIME-SINANO of PETAscale computing and SPINtronic” (acronym PETASPIN)**, from now on “Laboratory”.

##### **Art. 2 – Headquarters**

The Laboratory has headquarters for each Party. UNIME headquarters are located at the Department of Mathematical and Computer Sciences, Physical Sciences and Earth Sciences of the University of Messina, viale F. Stagno D'Alcontres 31, 98166, Messina, Italy. SINANO headquarters are located at Nanofabrication Facility, Suzhou Institute of Nano-tech and Nano-bionics, Chinese Academy of Sciences, No. 398 Ruoshui Road, 215123, Suzhou, Jiangsu, China.



### **Art. 3 – Objectives**

The Laboratory carries out its activities through the direct collaboration about research topics, which both the Parties are interested in. The Laboratory aims to organize and coordinate the activities within their cooperation agreement (n. 518/2016). Members of the Laboratory may conduct:

- a) Research and development projects of common interest, also commissioned by third parties;
- b) Specialized activities of formation (internship, and the like or the related) and orientation, connected with the above mentioned research and development projects.

### **Art. 4 - Research Topics**

The activities of the Laboratory concern the following research arguments:

- a) Magnetism;
- b) Spintronics;
- c) Numerical models, including the scalability towards petascale architectures.

### **Art. 5 - Laboratory structure**

The structure of the Laboratory includes:

- a) Board of Directors;
- b) Management Committee.

The Board of Directors is composed of two Directors, one for each Party: Prof. Giovanni Finocchio for UNIME, and Prof. Zhongming Zeng for SINANO. The Board of Directors is responsible for the operation of the Laboratory, it will coordinate and manage the activities of the Laboratory in compliance with the objectives and the research topic expressed in Art. 3 and 4 of this protocol. Any participation of the



Laboratory at research projects will be agreed upon unanimously by the Board of Directors.

#### **Art. 6 – Facilities**

The Laboratory will provide integrated services to the research activities. UNIME will support activities by developing models and simulating devices of interest. SINANO will mainly realize and characterize the devices. Activities will be agreed upon by the Board of Directors, in consideration of the favorable advice of the Parties.

#### **Art. 7 – Safety**

For the safety purposes, UNIME will comply with the guidelines given by "Regolamento di Ateneo per la sicurezza e la salute dei Lavoratori". SINANO will comply with its internal guidelines.

#### **Art. 8 - Financial resources**

Costs for the opening and the maintenance of the Laboratory will be charged on the research funds of the Directors. In particular, opening expenses will be funded by the project “Nanoscale broadband spin-transfer-torque microwave detector” of the scientific and technological cooperation program between Italy and China for the years 2016-2018, funded by Ministero degli Affari Esteri e della Cooperazione Internazionale in Italy and by Ministry of Science and Technology in China.



### **Art. 9 – Obligations**

It has to be excluded any responsibility, also for third parties, of UNIME and SINANO, in case of partial/total, incomplete and/or wrong compliance with respect to the activities carried out in the Laboratory, described in Art. 3 and 4 of this protocol.

### **Art. 10 – Duration, renewal and deactivation**

The Laboratory is established within the cooperation agreement n. 518/2016 and it is limited by the duration and renewal modalities expressed by that agreement (Art. 4 of the cooperation agreement n°518/2016 between UNIME and SINANO). The renewal of the Laboratory has to be explicated upon the renewal of the cooperation agreement between UNIME and SINANO. The deactivation of the Laboratory occurs upon the written request of one of the Parties. The renewal of the Laboratory is not possible without the renewal of the cooperation agreement between UNIME and SINANO.

### **Art. 11 - Intellectual properties**

Intellectual property rights (IPR) of the Laboratory cover all results obtained in the Laboratory. The IPR of common results will be shared by all Parties concerned. The IPR of results obtained independently by one Party without any assistance from the other Party or obtained before or after the collaboration will belong to the respective Party.

Authorship and acknowledgement in papers should be based on contribution to the Laboratory activities and decided in discussions involving all Parties concerned.

Before submitting any application for related intellectual property rights, one Party should first consult with the other Party and may proceed only after the other Party has agreed without objection on the ownership of the IPR.



Without the written consent of both Parties, none of the project's common IPR may be transferred to any third-party.

This protocol in English language consists in four original copies.

For the University of Messina

For the Suzhou Institute of Nanotech  
and Nanobionics,  
Chinese Academy of Science

Co-Director of the Laboratory  
(Prof. Giovanni Finocchio)

Co-Director of the Laboratory  
(Prof. Zhongming Zeng)

The Rector  
(Prof. Pietro Navarra)

The Director  
(Prof. Hui Yang)

Messina, .....

Suzhou, .....