Memorandum of Understanding among the sPHENIX Project, BNL Physics Department and BNL Instrumentation Division

A. Purpose

The purpose of this Memorandum of Understanding (MOU) is to serve as a written understanding between the sPHENIX/1008 I&F Project, the BNL Physics Department (PO) and the BNL Instrumentation Division (IO) regarding IO personnel supporting sPHENIX engineering and design through April 30, 2021. The IO personnel covered by this document will be reporting to the sPHENIX/I&F engineering leads, Jim Mills, Russell Feder and Joel Vasquez.

This MoU is a stand-alone agreement and does not supersede or modify other existing memoranda of agreement between the parties except where noted*.

B. Funding

Funding for IO personnel working on engineering and design for the sPHENIX Major Item of Equipment (MIE) and the 1008 Infrastructure and Facility Upgrade (1008 I&F) will be entirely from accounts supporting sPHENIX and the I&F Upgrade.

C. Statement of Work

Table 1 below lists the IO personnel, estimated hours through 4/30/21 as % FTE, and the general sPHENIX/1008 I&F scope assignments and contact.

IO Personnel	***Estimated effort through 4/30/2021***	***Scope***	***Project/Activity***	***sPHENIX/I&F contact***
Connor Miraval	75% (increased from the current 50%*)	TPC and HCal detector engineering	16709, 16711	Jim Mills *mills@bnl.gov* 631-344-4904
Brian Brenton	100%	sPHENIX and 1008 Infrastructure & Facility engineering	16729, 16732, 16733	
Roland Wimmer	50%	sPHENIX and 1008 Infrastructure & Facility engineering	16723, 16727	Russell Feder *rfeder@bnl.gov* 631-344-2253

The Physics Dept will make the Project/Activity accounts noted in the table above available for time card charging. All efforts associated with the work covered in this MoU should be recorded against these Project/Activity accounts as applicable.

D. Hardware and software

IO will provide engineers and designers with licensed AutoCAD and Inventor software, as well as the standard BNL ITD Microsoft Office products as well as workstations to run the software.

sPHENIX will provide ANSYS engineering analysis software as needed as well as any other project specific software or applications. sPHENIX will also provide any additional computing resources needed in labs or assembly testing areas.

E. Modifications

Modifications within the scope of this MOU will be made by mutual consent of the parties and by issuance of a written modification, signed and dated by all parties, prior to any changes being performed.

F. Terminations

Any organization that is a signatory on this document may terminate this MoU in whole or in part at any time prior to the expiration date though written notification of the signing organizations.

G. Points of Contact

The principal points of contact for this MoU are:

Edward O'Brien
sPHENIX Project Director
Phone: 631-344-4318
E-mail: eobrien@bnl.gov

Bill Wahl
DCOO, Instrumentation Division
Phone: 631-344-8160
E-mail: bwahl@bnl.gov

F. Commencement/Expiration Date

This instrument is in effect after all signatures have been applied and for one year as of the start date indicated in Table 1 above, at which time it will expire unless modified and agreed to by all parties.

Physics

Dr. James Dunlop
Physics Associate Chair, Nuclear Physics

5/19/2020
James Dunlop Date

Dr. Edward O'Brien
sPHENIX Project Director
Physics Assistant Chair, Nuclear Physics

05/13/2020
Edward O'Brien Date

Mr. James Desmond
Physics, Business Operations Manager

James Desmond Date

Instrumentation Division

Mr. Bill Wahl
Division Chief Operations Officer

William H. Wahl 5/19/20
Bill Wahl Date

Dr. Gabriella Carini
Instrumentation, Deputy Director

5/20/20
Gabriella Carini Date