Statement of Principles for Data Sharing, Analyzing, and Publication within the SBN Program

This document lists a set of principles agreed to by all members of the SBN program (via their Institutional Board representatives). A list of members of the SBN program can be found at the end of this document. The list is maintained as Annex 1 of the SBN Multi-Institution MOU and updated by the SBN IB Chair.

These principles cover the sharing, analysis, and publication of data from the SBN Near Detector (SBND) and the SBN Far Detector (ICARUS T600). Once these principles are agreed upon they will form the basis for a separate document that establishes detailed rules and procedures grounded in the principles of this document and possibly including MicroBooNE data and/or analysis results

The SBN Analysis Working Group (and associated sub-groups) leads the development of the methods and tools needed to execute the combined SBN physics analyses. Work focuses on building reconstruction and analysis tools within a common framework and developing and end-to-end common analysis scheme. Access to SBN detector data will be crucial to achieving the goals of this effort and preparing the SBN oscillation analyses.

Principle 1: A common strategy for data taking with each detector will be agreed to ensure the data can be properly combined in a joint analysis.

- This includes, but is not limited to, trigger logic, run conditions, and run duration

Principle 2: All data taken at Fermilab by either the SBND or the ICARUS T600 detector are to be made available promptly and with equal access to any member of the SBN program.

- Publication or presentation of that data will fall under Principle 5.

Principle 3: All software tools developed for the analysis of SBND or ICARUS data are fully available to any member of the SBN program.

Principle 4: Any member of the SBN program may pursue any analysis of the data taken with the ICARUS or SBND detectors that they wish.

- Publication or presentation of that data will fall under Principle 5.

Principle 5: Any publication or presentation that uses data or software tools from either detector will be submitted to a two step process before being made public:

1. **Decide the author list (if there is one)**
2. **Go through an appropriate process of review within the SBN program**

The results will not be made public until the review process is successfully completed.

- The mechanisms of these reviews will be spelled out in the procedures that are written based upon the principles of this document.
- The appropriate process of review will vary depending on the author list.
- Including tools as well as data in this principle ensures that, for instance, experiment sensitivity plots are covered.
- Mechanisms will be put in place to ensure that any questions or concerns about an analysis can be resolved before the analysis is published or made public.

Members of the SBN Program

Institution	Country	Funding	Contact Person/IB Rep
GSSI, L'Aquila	Italy	INFN	Rubbia, C.
LNGS, Assergi, L'Aquila	Italy	INFN	Vignoli, C.
Argonne National Laboratory	USA	DOE	Djurcic, Z.
Federal University of ABC - UFABC	Brazil		Paulucci, L.
Federal University of Alfenas - UFAL	Brazil		Valdiviesso, G.
University of Bolgna	Italy	INFN	Bertolluci, S.
Brookhaven National Laboratory	USA	DOE	Diwan, M.
University of Bern	Switzerland		Ereditato, A.
University of Campinas	Brazil		Segreto, E.
CERN	Switzerland	CERN	Nessi, Marzio
Colorado State University	USA	DOE	Wilson, Bob
Sezione di Catania and University	Italy	INFN	Bellini, V.
University of Chicago	USA		Schmitz, D.
Columbia University	USA		Karagiorgi, G.
Fermilab	USA	DOE	Ketchum, W.
University of Houston	USA		Cherdak, D.
Harvard University	USA		Guenette, R.
Illinois Intitute of Technology	USA		Littlejohn, B.
Indiana University	USA		Mufson, S.
Kansas State University	USA		Horton-Smith, G.
Los Alamos National Laboratory	USA	DOE	Louis, B.
Lancaster University	UK	UKRI	Nowak, J.

University of Liverpool	UK	UKRI	Touramanis, C.
University of Manchester	UK	UKRI	Soldner-Rembold, S.
University of Michigan	USA		Spitz, J.
Massachussets Institute of Technology	USA		Conrad, J.
Sezione di Milano Bicocca	Italy	INFN	Bonesini, M.
Sezione di Napoli	Italy	INFN	Cocco, A.
New Mexico State University	USA		Cooper, R.
Sezione di Padova and Universiy	Italy	INFN	Guglielmi, A.
Sezione di Pavia and Universiy	Italy	INFN	Raselli, G. L.
University of Pittsburgh	USA		Paolone, V.
Pacific Northwest National Laboratory	USA		Church, E.
University of Pennsylvania	USA		Klein, J.
University of Puerto Rico	USA		Mendez, H.
University of Rochester	USA		McFarland, K.
Federal University of Rio de Janerio	Brazil		Bonifazi, C.
Federal University of San Carlos	Brazil		Marinho, F.
SLAC National Accelerator Laboratory	USA	DOE	Convery, M.
University of Sheffield	UK	UKRI	Spooner, N.
University of Sussex	UK	UKRI	Griffith, C.
Syracuse University	USA		Soderberg, M.
University of Texas at Arlington	USA		Assadi, J.
University of Tennessee	USA		Gollapinni, S.
Tufts University	USA		Wongjirad, T.
University College London	UK	UKRI	Holin, A.
Virginia Tech	USA		Mariani, C.
Yale University	USA		Fleming, B.