

GODDESS Collaboration Agreement

Gamma-array ORRUBA: Dual Detectors for Experimental Structure Studies (GODDESS) refers to various instances of a particle gamma spectrometer that exploits **the Oak Ridge Rutgers University Barrel Array (ORRUBA)** of silicon strip detectors.

The Members of the GODDESS Collaboration are individual scientists from several institutions who desire to cooperate in research activities in the design, construction and operation of a particle-gamma spectrometer for nuclear physics studies, and to act with one accord in the pursuit of these studies.

I. Purpose

The GODDESS Collaboration shall together promote research cooperation with a view to contribute to the advancement of scientific research, technological development in nuclear physics, and the education and training of students and postdoctoral scholars.

II. Scope

This document shall serve to cover the collaborative research efforts of the GODDESS Collaboration, including, but not limited to: design and construction of a particle-gamma spectrometer for stable and radioactive ion beam studies; preparation and submission of Letters of Intent, proposals and experimental campaigns to utilize said spectrometer; participation in experiments requiring said spectrometer or characterizing/commissioning said spectrometer; presentation of results acquired with said spectrometer; and publication of said results in proceedings and manuscripts. Additional areas of research cooperation may be added by mutual agreement.

III. Forms of Research Cooperation

Forms of research cooperation within the GODDESS Collaboration may include, but not be limited to: exchange of personnel; exchange of information; implementation of cooperative research programs; and joint use of facilities. Research cooperation in other forms than those mentioned shall be determined through mutual consultation and agreement.

IV. Definitions

Definitions to be understood throughout this and additional related documents include terminology which is used across the nuclear physics research community.

“GODDESS” refers to the detector system (radiation detectors, electronics, chambers, mounts, gauges, pumps, gas-handling systems), dedicated data acquisition and analysis computers, on-line and off-line software, data analysis tools, etc. which are necessary for the operation of an ORRUBA-based particle-gamma spectrometer for research purposes.

“Letter of Intent” refers to the documents produced by a collaboration to announce intent to study specific or general classes of experiments, when the Facility, the Members, or the necessary equipment is not yet fully prepared for said experiments.

“Proposal” refers to the documents produced by a collaboration to announce intent to perform an experiment, which are submitted to a facility for consideration by either a Program Advisory Committee or to a Director/User Liaison for discretionary facility time.

“Manuscript” refers to any publication, peer reviewed, refereed or not, and including abstracts for conferences, which describes the GODDESS system and/or presents results from GODDESS.

“Principal Investigator” refers to the Member most intimately involved with the current design/result/test/campaign/proposal and who is thus most appropriate to present said information. Often this individual is the Spokesperson.

“Management Committee” refers to the Members of the Collaboration most responsible for the development, maintenance and upgrade of GODDESS. The Management Committee is chaired by a Director. Management Committee membership as of December 1, 2019 is listed in Appendix I and can be amended upon mutual agreement of the then current Members of the Management Committee.

V. Policy

- a. Members shall meet, as occasion demands, to review the progress of research cooperation that is currently underway.
- b. Details concerning the expectations of Principal Investigators with regard to specific experiments, publications, and authorship are described in Appendix II: Guidelines for GODDESS Collaborators. Amendments to these Guidelines can be made upon consent of the Management Committee and in consultation with the other Members. Additional documents of collaboration or agreement specific to details of implementation of research cooperation may be prepared.
- c. Transportation and living expenses for researchers to participate in aforementioned cooperative research shall be covered by the Member’s home institution unless otherwise agreed.
- d. The Members shall strive to make research results publicly known to the scientific community and society at large primarily through publications, seminars, lectures, and conferences. Expectations in disseminating research results are described in Appendix II. Amendments to these expectations can be made upon consent of the Management Committee and consultation with other Members.
- e. Matters not provided for in this Collaboration Agreement shall be determined through mutual consultation and agreement with the Management Committee and other Members.

VI. General Provisions

- a. Research cooperation will be in concert with each participating Member's/institution's national and local regulations, procedures and policies.
- b. Treatment of intellectual property rights will be determined between the Management Committee and the Members through mutual consultation and agreement on a case-by-case basis, consistent with the principles of existent international, national and local laws, as well as each Member's local regulations, procedures and policies. This Collaboration Agreement does not itself constitute any grant or license under any intellectual property rights now or in the future held by any Member, except as may be provided for in a separate written agreement.
- c. The GODDESS Collaboration strives to foster a research and education environment that is respectful and free from discrimination and harassment. The GODDESS Collaboration recognizes the human dignity of each Member and believes that each Member of the Collaboration has a responsibility to promote respect and dignity for others so that all Members are free to pursue their research and educational goals in an open environment, to participate in the free exchange of ideas, and to share equally in opportunities. The GODDESS Collaboration affirms its commitment to treat every Member with respect and dignity, regardless of race, ethnicity, gender, sexuality, faith, political beliefs, or other aspects of personal identity. The Guidelines on Ethics of the American Physical Society apply.
- d. Membership in the GODDESS Collaboration may be requested by any individual but shall require mutual consultation and agreement by the Management Committee and other Members to determine eligibility via intent to participate, previous or current participation, and/or means to participate. Guidelines for GODDESS Collaborators, that include expectations for Principal Investigators, are outlined in Appendix II. This clause is not to be used as justification for any discrimination, but as a method for determining appropriate eligibility of membership.
- e. The Principal Investigators(s) for any given aspect of GODDESS shall be the Member(s) who is(are) most intimately involved in said aspect. Expectations of PIs and authorship guidelines are outlined in Appendix II.
- f. Division of responsibilities shall be determined through mutual consultation and agreement by the Management Committee and the Members, and shall account for time availability, ability, funding, access to information, etc.

VII. Period of Validity

This Collaboration Agreement is intended to memorialize the understanding of the Members to encourage and promote cooperation in GODDESS Collaboration research activities. This Collaboration Agreement is not intended to be legally binding. If an individual Member desires to create specific, legally binding obligations with respect to performance of activities as part of

such collaboration and/or cooperation, such binding obligations shall be set forth in a separate written agreement signed by duly authorized representatives of that Member.

This Collaboration Agreement and the attached Appendix on Guidelines for GODDESS Collaborators shall become effective on the date it is ratified by the 2019 Management Committee. Individuals are recognized as Members of the Collaboration through request to the Director and approval by the Management Committee.

On this date December 19, 2019 the Members of the 2019 Management Committee of the GODDESS Collaboration approved this Collaborative Agreement and the Appendix on Guidelines for GODDESS Collaborators:

Jolie A. Cizewski	Rutgers University
Kate L. Jones	University of Tennessee-Knoxville
Steven D. Pain	Oak Ridge National Laboratory
Andrew Ratkiewicz	Lawrence Livermore National Laboratory

The GODDESS Collaboration Management Committee as of December 19, 2019:

APPENDIX I: GODDESS Management Committee as December 19, 2019

APPENDIX II: Guidelines for GODDESS Collaborators

[Separate documents]