

Statement of Intent  
between  
The Department of Energy of the United States of America  
and  
The Ministry of Science, Technology and Innovation of the Federative Republic of  
Brazil  
Concerning  
Collaboration in the Fields of Synchrotron Radiation Science and Technology and  
Neutrino Physics

The Department of Energy of the United States of America and the Ministry of Science, Technology and Innovation of the Federative Republic of Brazil, hereinafter collectively referred to as the "Participants" and individually as a "Participant":

ACKNOWLEDGING that over the last decade synchrotron radiation has developed into one of the most valuable scientific tools for the investigation of materials, both biological and non-biological;

ACKNOWLEDGING that many aspects of neutrino physics are still not understood, especially those associated with the neutrino mass;

NOTING that Brazil operates the only synchrotron source in Latin America, and is currently constructing a new source, Sirius, one of the first fourth-generation synchrotron storage rings in the world, and that the United States has some of the most advanced synchrotron light sources in the world;

NOTING that Brazil and the United States have many decades of collaboration in the field of high-energy physics, that Brazil has many groups working in the physics of neutrinos, and that the United States Department of Energy is pursuing neutrino physics as one of its priorities for its particle physics program;

AFFIRMING the Participants' objective to promote greater intergovernmental cooperation in science, technology and innovation,

State their intention as follows:

1. The Participants intend to cooperate to promote collaborative research and development efforts in the fields of i) synchrotron radiation science and technology, and ii) neutrino physics.
2. The Participants may add additional areas of common scientific interest, as new research and development priorities arise, that the Participants may mutually decide in writing.
3. The Participants intend to conclude appropriate written agreements for the conduct of collaborative research and development in any mutually decided subject within the areas specified in paragraph 1 of this Statement of Intent (Statement).

4. This Statement does not create any legally binding obligations between the Participants.

5. Implementation of the cooperative activities contemplated by this Statement is subject to the availability of funds, personnel, and other resources.

6. The Participants intend that the collaboration contemplated by this Statement may commence upon signature.

7. Activities under this Statement may be discontinued at any time by the Participants' mutual consent in writing. Alternatively, a Participant that wishes to discontinue its participation in this Statement should provide at least 60 days advance notice in writing to the other Participant.

Signed in duplicate at Washington, in English and Portuguese languages, this  
30<sup>th</sup> day of June, 2015.

FOR THE DEPARTMENT OF ENERGY  
OF THE UNITED STATES OF  
AMERICA:

Franklin M. Duff

FOR THE MINISTRY OF SCIENCE,  
TECHNOLOGY AND INNOVATION OF  
THE FEDERATIVE REPUBLIC OF  
BRAZIL:

any any