DEPARTMENT OF COMMERCE

International Trade Administration

Rutgers, The State University of New Jersey, et. al; Application(s) for Duty-Free Entry of Scientific Instruments

Pursuant to Section 6(c) of the Educational, Scientific and Cultural Materials Importation Act of 1966 (Pub. L. 89-651, as amended by Pub. L. 106-36; 80 Stat. 897; 15 CFR part 301), we invite comments on the question of whether instruments of equivalent scientific value, for the purposes for which the instruments shown below are intended to be used, are being manufactured in the United States.

Comments must comply with 15 CFR 301.5(a)(3) and (4) of the regulations and be postmarked on or before (Insert date 20 days after publication in the FEDERAL REGISTER). Address written comments to Statutory Import Programs Staff, Room 3720, U.S. Department of Commerce, Washington, D.C. 20230. Please also e-mail a copy of those comments to Dianne.Hanshaw@trade.gov.

Docket Number: 19-018. Applicant: Rutgers, The State University of New Jersey, Physics and Astronomy Department, 136 Frelinghuysen Road, Piscataway, NJ 08854. Instrument: Tube Furnace, Box furnace, Sic Heater, MoSi2 Heater. Manufacturer: He Nan Nobody Materials Science and Technology, China. Intended Use: According to the applicant, the instrument will be used to study various physical properties in strongly correlated materials such as high-temperature superconductors, topological insulators or multiferroics. New materials will be conducted that have unique electric and magnetic properties using various crystal growth techniques such as flux, solid reaction, or chemical vapor transport. To identify grown materials x-ray diffraction and Laue diffraction will be employed. High-quality crystals will be further investigated with a physical property measurement system and a magnetic property

measurement system to obtain their electric and magnetic properties in varying conditions of temperature, electric and magnetic fields.

Justification for Duty-Free Entry: According to the applicant, there are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: July 9, 2019.

Docket Number: 20-001. Applicant: Rutgers, The State University of New Jersey, Physics and Astronomy Department, 136 Frelinghuysen Road, Piscataway, NJ 00854.

Instrument: CZekalski furnace (Crystal grower). Manufacturer: Sipat Co., Ltd., China. Intended Use: According to the applicant, the instrument will be used to study the physical properties of oxide and/or metallic materials and various physical phenomena based on strongly correlated materials such as high temperature superconductors, topological insulators or multiferroics. Electronic and/or magnetic properties of new oxide and/or metallic materials will be investigated. The growth of new materials will be conducted which have unique electric and magnetic properties using purchased crystal grower. To identify grown materials x-ray diffraction and Laue diffraction will be employed. The magnetic property measurement system obtains its electric and magnetic properties in varying conditions of temperature, electric and magnetic fields. Justification for Duty-Free Entry: According to the applicant, there are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: December 23, 2019.

Docket Number: 20 -013. Applicant: Fermi Research Alliance, FRA. Instrument: Linac Coherent Light Source (LCLS-II) Upper Cold Mass Assemblies and Vacuum Vessels. Manufacturer: Wuxi Creative Technologies Company LTD WXCX, China. Intended Use: According to the applicant, the instrument will be used to study the cryomodules that will be used for scientific research, including the studies of elementary particles. Each assembly is an essential component necessary to build a cryomodule. LCLS-II upgrade includes three types

of components 1) vacuum vessels for the 1.2 GHz cryomodules; 2) cold-mass assemblies for the 1.3 GHz; and 3) cold-mass assemblies for the cryomodules. These components will also be included in the complete assembly of the LCLS-II cryogenic cooling system, which insulates, provides and refreshes liquified helium gas. LCLS-II is a planned upgrade project for the free-electron laser facility located at SLAC. LCLS-II will consist of thirty-five (35) 1.3 GHz and two (2) 3.9 GHz superconducting radio frequency (RF) continuous wave (CW) cryomodules that Fermilab and Jefferson Lab are producing in collaboration with SLAC. The LCLS-II will enable new experiments and research in six broad areas: 1) fundamental dynamics of energy and charge in atoms and molecules; 2) catalysis, photo-catalysis, environmental, and coordination chemistry; 3) quantum materials; 4) non-scale heterogeneity, fluctuations, and dynamics of functional materials; 5) matter in extreme environments; and 6) biological function on natural length and time scales. Justification for Duty-Free Entry: According to the applicant, there are no instruments of the same general category manufactured in the United States. Application accepted by Commissioner of Customs: August 21, 2020.

Dated: June 17, 2021.

Richard Herring,

Director, Subsidies Enforcement,

Enforcement and Compliance.

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