

**MEMORANDUM ON EXTENSION OF  
AGREEMENT ON ACADEMIC EXCHANGE  
BETWEEN  
ICRR, THE UNIVERSITY OF TOKYO  
AND  
THE LIGO LABORATORY, CALIFORNIA INSTITUTE OF TECHNOLOGY**

**ICRR, the University of Tokyo (Japan) and The LIGO Laboratory in the California Institute of Technology (U.S.A), (hereinafter referred to as the “parties”), in accordance with the provisions of the Agreement on Academic Exchange concluded between the parties (hereinafter referred to as the “Agreement”), agree to extend the Agreement.**

**Accordingly, the parties hereby extend the Agreement of 8/17/2009, for a period of five years from 10/1/2023.**

**Institute for Cosmic Ray Research  
The University of Tokyo**

  
\_\_\_\_\_  
Director, Masayuki Nakahata

8 / 8 / 2023

**LIGO Laboratory,  
California Institute of Technology**

  
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Executive Director, Dave Reitze

8 / 8 / 2023