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## Oral Sessioin 05

### [O5A]

Wednesday, April 24 / 11:00-12:30

Room A (Grand Ballroom A, 2F)

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#### O5A.1 11:00-11:25

##### Qualification Tests for Detritiation to Validate Scrubber Column Technology for Use at ITER DS with a Pilot-Scale Scrubber Column

Yuki Edao<sup>1\*</sup>, Rie Kurata<sup>1</sup>, Yasunori Iwai<sup>1</sup>, Kanetsugu Isobe<sup>1</sup>, Toshihiko Yamanishi<sup>1</sup>, Takumi Hayashi<sup>1</sup>, Scott Willms<sup>2</sup>

<sup>1</sup>National Institutes for Quantum and Radiological Science and Technology, Japan, <sup>2</sup>International Thermonuclear Experimental Reactor, France

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#### O5A.2 11:25-11:50

##### Physico-Chemical Methods of Handling Tritiated Water and Gas Streams

Mikhail B. Rozenkevich\*, Alexey N. Bukin, Sergey A. Marunich, Eldar P. Magomedbekov, Yury S. Pak, Irina L. Rastunova, Igor L. Selivanenko

*D. Mendeleev University of Chemical Technology of Russia, Russian Federation*

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#### O5A.3 11:50-12:10

##### Hydrogen Isotope Separation Using Graphene Electrochemical Membrane

L. M. Anglette<sup>1</sup>, C. South<sup>1</sup>, L. Roy<sup>1</sup>, S. Creager<sup>2</sup>, X. Xiao<sup>1\*</sup>

<sup>1</sup>Savannah River National Laboratory, USA, <sup>2</sup>Clemson University, USA

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#### O5A.4 12:10-12:30

##### Development and Operation of a Water Detritiation Facility Based on CECE Technology

Hou Jingwei, Chen Chao, Xiao Chengjian, Wang Heyi, Fu Xiaolong, Xia Xiulong, Gong Yu, Peng Shuming\*

*China Academy of Engineering Physics, China*