

**[W2E] Session E. Radiation in Environment, Space**

**Date / Time** December 7 (Wed.), 2022 / 15:20-17:20

**Place** Auditorium (2F)

**Chairpersons** Dr. Junga HWANG (KASI)

**W2E\_01**

**15:20-15:40**

**Conceptional Design of Particle Dosimeter and Spectrometer on the Moon**

**Sunghwan Kim<sup>1</sup>, Ukwon Nam<sup>2</sup>, Won-Kee Park<sup>2</sup>, Jongdae Sohn<sup>2</sup>, Young-Jun Choi<sup>2</sup>, Bobae Kim<sup>3</sup>, Hongjoo Kim<sup>3</sup>, Hwanbae Park<sup>3</sup>, Sukwon Youn<sup>4</sup>, Sung-Joon Ye<sup>4</sup>, Insoo Jun<sup>5</sup>**

*<sup>1</sup>Cheongju University, Republic of Korea, <sup>2</sup>Korea Astronomy and Space Science Institute, Republic of Korea, <sup>3</sup>Kyungpook National University, Republic of Korea, <sup>4</sup>Seoul National University, Republic of Korea, <sup>5</sup>Jet Propulsion Laboratory, USA*

**W2E\_02**

**15:40-16:00**

**Shielding Simulation of the Cosmic Radiation Damage in the Super Low Altitude**

**Junga Hwang<sup>1,2</sup>, Hojin Lee<sup>1,2</sup>, Jongdae Sohn<sup>1,2</sup>, Jaeyoung Kwak<sup>1,2</sup>**

*<sup>1</sup>University of Science and Technology, Republic of Korea, <sup>2</sup>Korea Astronomy and Space Science Institute, Republic of Korea*

**W2E\_03**

**16:00-16:20**

**Compact Electron Accelerator System to Treat Livestock Odor in KAERI**

**Moonsik Chae, Jaehyun Lee, Jaeyeon Park, Taehoon Kim**

*Korea Atomic Energy Research Institute, Republic of Korea*

**W2E\_04**

**16:20-16:40**

**Ambient Dose Equivalent Calibration of LEO-DOS Particle Dosimeter and Spectrometer (PDS)**

**Sukwon Youn<sup>1</sup>, Uk-won Nam<sup>2</sup>, Sunghwan Kim<sup>3</sup>, Won-Kee Park<sup>2</sup>, Bongkon Moon<sup>2</sup>, Sung-Joon Ye<sup>1</sup>**

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**W2E\_05**

**16:40-17:00**

**Monte Carlo-Based Calibration Method of Miniaturized Tissue Equivalent Proportional Counter**

**Mingi Eom, Sukwon Youn, Sung-Joon Ye**

*Seoul National University, Republic of Korea*

**W2E\_06**

**17:00-17:20**

**Extraction of <sup>235</sup>U and <sup>239</sup>Pu Prompt Energy Spectra in NEOS-II**

**Jinyu Kim<sup>1</sup>, Bo-Young Han<sup>1</sup>, Chang-Seong Moon<sup>2</sup>, Eun-Ju Jeon<sup>3</sup>, Gwang-Min Sun<sup>1</sup>, Hyang-Kyu Park<sup>4</sup>, Hyon-Suk Jo<sup>2</sup>, Intae Yu<sup>5</sup>, Jaison Lee<sup>3</sup>, Jong-Geon Kim<sup>5</sup>, Kang Soon Park<sup>3</sup>, Kim Siyeon<sup>6</sup>, Ki-Young Jung<sup>6</sup>, Moo Hyun Lee<sup>3</sup>, Seon-Hee Seo<sup>3</sup>, Yeoungduk Kim<sup>3,7</sup>, Yoomin Oh<sup>3</sup>, Youngju Ko<sup>3</sup>, Young Soo Yoon<sup>8</sup>**

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