

NPRE441, Spring 2025

Group Designation for the Paper Review Project

Group 1:

Bella Pequette
Sam McDonald
Jacob Rice

Paper assignment: Giraudo, Martina, et al., "Accelerator-Based Tests of Shielding Effectiveness of Different Materials and Multilayers using High-Energy Light and Heavy Ions", Radiation Research, 2025.

Group 2:

Ceser Zambrano
Dimitri Kalinichenko
Leron Maddi

Paper assignment: Scott N. Penfold, "Radiation shielding assessment of high-energy proton", Medical Physics, 2022.

Group 3:

Riley Trendler
Kenneth Burnett
Andrews Han

Paper assignment: Masayuki Naitoa, et al., "Investigation of shielding material properties for effective space radiation protection", Life Sciences in Space Research, 2020.

Group 4:

Abby Kuhn
Otto Learsy
Weijian Zhang

Paper assignment: Haiyan Yu, et al., "Neutron/Gamma Radial Shielding Design of Main Vessel in a Small Modular Molten Salt Reactor", Journal of Neutron Engineering, 2022.

Group 5:

Olivia Hunsberger
Michael Roedelbronn
Hrishi Kini

Paper assignment: Zigong Xu, et al., "Primary and albedo protons detected by the Lunar Lander Neutron and Dosimetry experiment on the lunar farside", Frontiers in Astronomy and Space Sciences, 2022.

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Group 6:

Sean Siewert
Sean Mahanes
Nicholas Kut

Paper assignment: Tingzhou Fei, et al., "Radiation Protection and Shielding Analysis of the Versatile Test Reactor", Nuclear Science and Engineering, 2021.

Group 7:

Nitika Purohit
Tahmid Omi
David Barnett

Paper assignment: Shohei Ueta, et al., "Shielding technology for upper structure of HTTR", Annals of Nuclear Energy, 2016.

Group 8:

Harrison Brosius
Gabe Walton
Colman Flynn

Paper assignment: Marco Durante, "Space radiation protection: Destination Mars", Life Sciences in Space Research, 2014.

Group 9:

Eli Capps
Krystian Szeliga
Nathan Glaser
Xochil Arteaga

Paper assignment: Rudy Ferraro, et al., "Study of the Impact of the LHC Radiation", IEEE Transactions on Nuclear Science, 2019.