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Cooling the nEXO Photomultiplier Tube Testing Setup and Improving Data Analysis Scripts

Monday, August 19, 2024 11:40 AM (10 minutes)

This summer, I designed a cooling loop for the nEXO photomultiplier tube (PMT) testing setup and enhanced Python scripts for analyzing PMT rate data. For the cooling loop, I conducted various calculations to select the optimal design, compiled a detailed bill of materials, and ensured all necessary components were ordered. Additionally, I stress-tested the Python scripts, improving performance and adding new features. This work has improved data analysis and will result in a PMT testing setup with more capabilities.

What area of study best describes your talk?

Other (specify below)

If you answered 'Other', please provide the study area.

Engineering and Physics

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