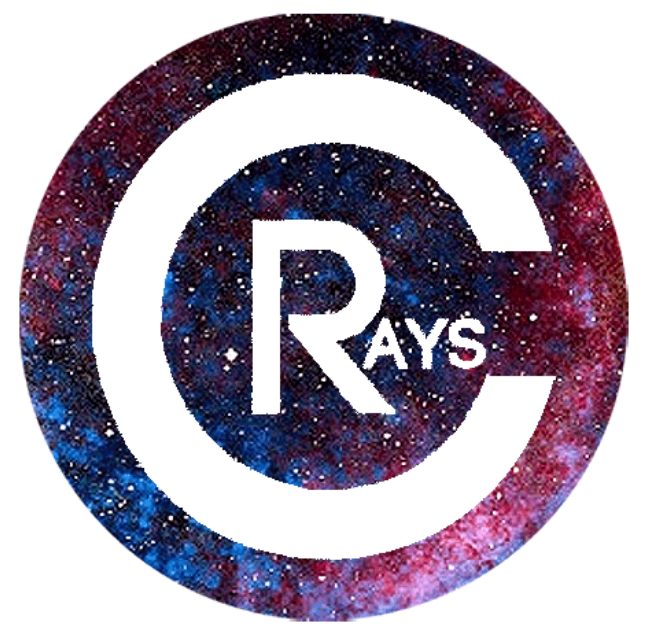




STEM Outreach with Cosmic Ray Detectors



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Abstract As a part of the GSU RISE project on cosmic ray studies, the team shared the usefulness of the cosmic rays and radiation with local schools and the public. We utilized connections with the Dekalb schools and the Atlanta Science Festival to build local connections and have installed one detector at a local high school. We plan to connect students around the world through the shared data.

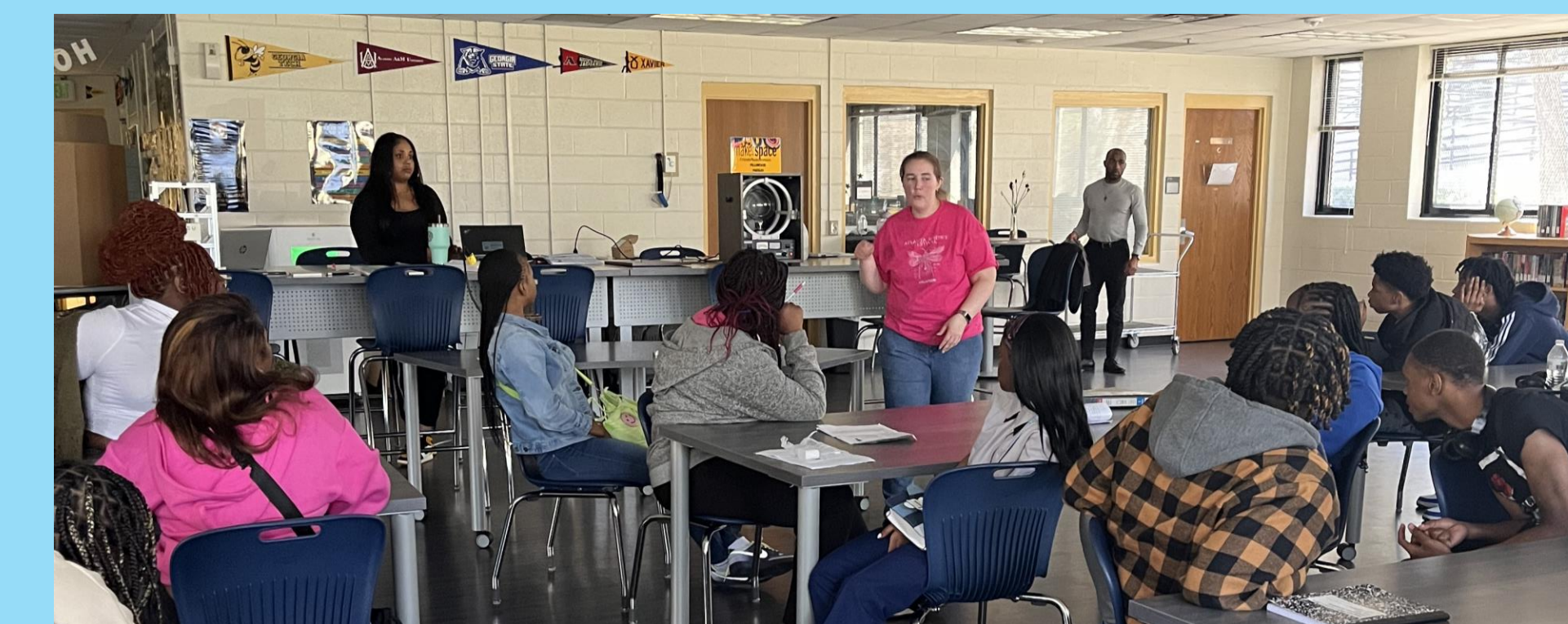


We hosted a workshop for Dekalb teachers to learn more about opportunities to engage students with the cosmic ray detectors.



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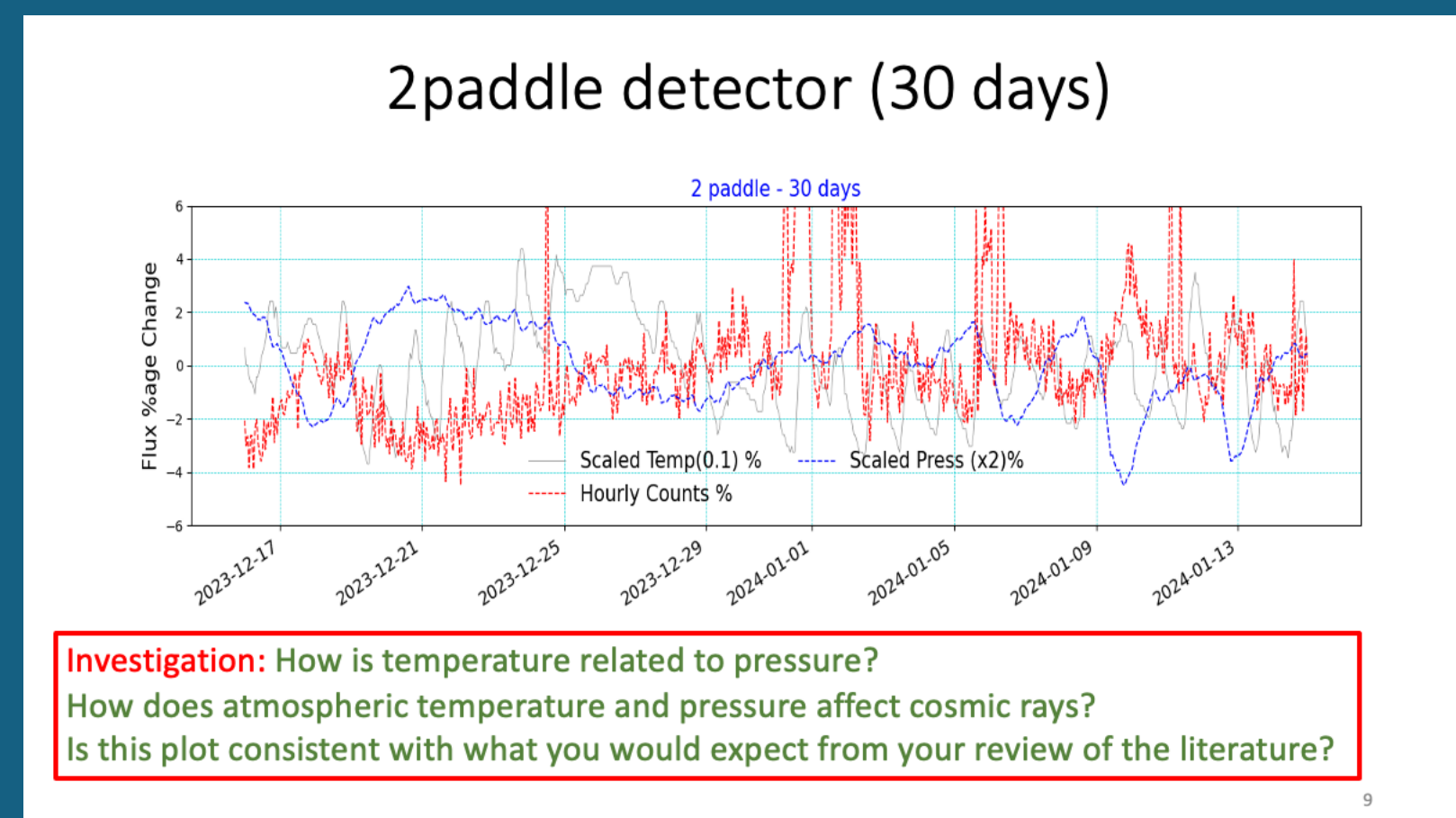
Cosmic ray detectors are a key part of the “How Does Radiation Impact My Life?” booth hosted by the Physics and Astronomy department at the Atlanta Science Festival (ASF) Expo in March 2024.



The Imagining the Future Program, which is part of the ASF activities, connects STEM professionals with K-12 classrooms in the region. In March 2024, M. Connors was paired with Fredrick Douglass High School (FDHS) and presented to 2 classes. They expressed interest in hosting a cosmic ray detector starting in Fall 2024. In preparation, we shared slides with the teachers providing details with additional questions for students to explore. On Oct 18, 2024, we installed the detector at FDHS, and it is currently collecting data and sharing it through the online portal. We plan to connect classrooms around the world with a shared purpose by sharing the global data online.



Example slide for new student investigators



RISE at GSU - Cosmic Ray Studies

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