The Joint Institute for Nuclear Astrophysics

Math, Science, Technology 2011 @ MSU



Eleven middle-school students joined the Nuclear Astrophysics class of MST Taught faculty, 2011. by JINA graduate students, and staff, the twoweek course served as an intensive introduction nuclear to science. stellar evolution, cosmic rays, and current JINA research. The students simulated stellar nucleosynthesis in a "random" where game, events (determined by rolling dice) caused their marble nuclei to capture protons, neutrons, or alpha particles. The marble nuclei were also used in a gravity based accelerator to simulate The students also fragmentation. learned spectroscopy and performed experiments with portable cosmic ray detectors. Students ended the course with a poster session to explain their research to parents.





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