

Cosmic Rays And Particle Physics

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[PDF]Chapter 12 –Radioactivity<https://www.nust.na/sites/default/files/documents/Chapter 12...>

- Gamma rays are not charged particles like α and β particles.
- Gamma rays are electromagnetic radiation with high frequency.
- When atoms decay by emitting α or β particles to form a new atom, the nuclei of the new atom formed may still have too much energy to be completely stable.
- This excess energy is emitted as gamma rays

[PDF]Teruyoshi Kawashima for The ALPACA Collaboration<https://arxiv.org/pdf/2208.14659>

Sep 01, 2022 · The Andes Large area Particle detector for Cosmic ray physics and Astronomy (ALPACA) collaboration aims to demonstrate the first sub-PeV gamma ray ...

[PDF]MasteringPhysics: Assignment Print View - Uni...https://www.nhn.ou.edu/~bumm/OK_ACS/HW01

What kind of charged particle was transferred between the rod and the sphere, and in which direction? That is, did it move from the rod to the ... that have been kicked out of atoms by cosmic rays...

[PDF]arXiv:2208.07880v1 [astro-ph.HE] 16 Aug 2022<https://arxiv.org/pdf/2208.07880>

Aug 18, 2022 · TABLE I. The cosmic-ray propagation parameters for the ISM model that we use. model uncertainties in the ISM gas and the production efficiency and injection spectra of primary cosmic rays. Finally, the solar modulation parameters ϕ_0 and ϕ_1 are marginalized over. Once including the cosmic ...