Medium Energy γ–Astrophysics and Dark Matter Search with Liquid Xenon Detectors

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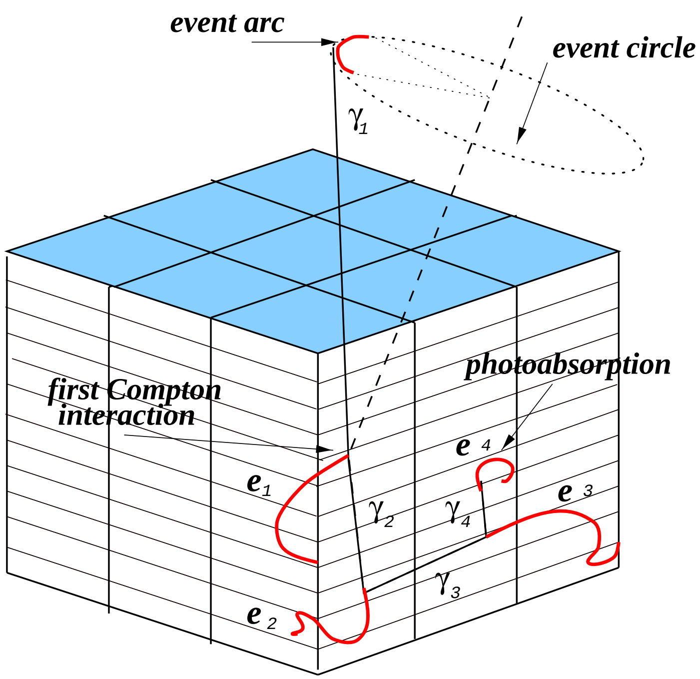
γ–ray Astrophysics

- Cosmic Particle Accelerators (Black Holes, GRB, Neutron Stars, Unidentified Sources)
- Nucleosynthesis
- Diffuse Galactic and Extragalactic Emission



XeACT: Concept of an Advanced Compton Telescope based on Xe Time Projection Chambers capable of a line sensitivity of 10^{-7} γ/cm^2/s in 10^6 s observation time

Dark Matter

Search for weakly interacting particles (WIMPs) as contributors to the total matter density of the Universe