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Inverse-Compton radiation from GRB afterglows Jagdish C. Joshi 1. Introduction Gamma ray bursts (GRBs) are energetic explosions, which indicates either death of a massive star ( $>25M_{\odot}$ ) or merger of two compact objects in combination of a neutron star and a black-hole [1–4]. inverse square law, the exposure at the distance of 0.3 meters is  $x = 0.43$  R/hr (with no shielding) B This corresponds to a dose equivalent  $D$  for tissue of .415 rads/hr. C Converting this to the Dose Equivalent in rems.  $DE = D \times QF$  where  $QF=1$  for gamma rays. Hence we have  $DE = 0.415$  rems/hr (if no shielding)

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#### Inverse Compton radiation from GRB afterglows in the VHE range

In physics, Compton scattering or the Compton effect is the decrease in energy (increase in wavelength) of an X-ray or gamma ray photon, when it interacts

with matter. Inverse Compton scattering also exists, where the photon gains energy (decreasing in wavelength) upon interaction with matter.

Inverse Compton scattering. Inverse Compton scattering is important in astrophysics. In X-ray astronomy, the accretion disk surrounding a black hole is presumed to produce a thermal spectrum. The lower energy photons produced from this spectrum are scattered to higher energies by relativistic electrons in the surrounding corona. This is surmised to cause the power law component in the X-ray spectra (0.2-10 keV) of accreting black holes.

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