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## **Probing fundamental physics and cosmology using Gamma ray observation**

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Gamma-ray photons from distant astronomical objects with energies greater than the threshold energy for electron-positron pair creation are expected to be annihilated due to their absorption by Extragalactic Background Light (EBL). I will talk about particular challenges of gamma-ray observations compared to other electromagnetic wave-bands, the sources of gamma ray photons, and how the EBL gamma-gamma absorption may be exploited to probe fundamental physics and cosmology.