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### **Ultra-high-energy cosmic ray - Wikipedia**

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### **Greisen-Zatsepin-Kuzmin limit - Wikipedia**

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## **Amount of energy of the Big Bang - Astronomy Stack Exchange**

The Universe is filled with an unimaginably rich diversity of phenomena and processes. Thanks to the rapid developments in observational astrophysics we have now an extensive electromagnetic observing window spanning from the radio waveband to the high energy gamma rays. Besides photons, however, there are also other carriers of information.

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