

Abstract Submitted
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Ultra High Energy Cosmic Ray Events JIAYIN SUN,
Stony Brook University, Stony Brook, NY — Cosmic rays are charged particles that strike earth from the outer space. A current high interest in them is the end of the cosmic ray spectrum, i.e. the detection of extremely high energetic cosmic rays. According to the theory of GZK cut-off, due to the interaction with the cosmic background radiation, the possibility of detecting particles with energy exceeding $5 \times 10^{19} eV$ is extremely low. However, AGASA and the Flys Eye have claimed to discovered cosmic rays with energy more than $10^{20} eV$, respectively in 1991 and 1993. The energies are $3.2 \times 10^{20} eV$ and $2 \times 10^{20} eV$. In the following years there were more ultrahigh energy cosmic rays detected. Their origin and acceleration remain a mystery that is related with our understanding of the universe. Several possible explanations are proposed, in the meantime, some cosmic ray observatories are being built.

- Prefer Oral Session
 Prefer Poster Session

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