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GRB-UHECRs connection after detection of the B.O.A.T. GRB 221009A

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Gamma-ray bursts have been hypothesized as the sources of ultrahigh-energy cosmic rays. The direct evidence, however, is still missing. Recent detection of gamma-rays exceeding 10 TeV from the record-breaking “brightest of all time” or the B.O.A.T. burst GRB 221009A provides clues to whether UHECRs are accelerated and responsible for producing very high energy gamma rays. In this talk I will give an overview of UHECR acceleration in GRBs and focus on VHE emission from GRB 221009A induced by UHECRs.

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