

Understanding the multi-messenger and multi-wavelength data of the BOAT GRB 221009A

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The TeV afterglow of the BOAT GRB 221009A was interpreted as arising from a narrow jet, while the radio-to-X-ray afterglows were interpreted as arising from a wide structured jet. However, there is no model explaining the TeV and lower-energy multiwavelength afterglows simultaneously. We here investigate a two-component jet model, including a narrow uniform core with a wide structured wing, to explain both the multiwavelength afterglows that last up to 100 days.

Primary author: WANG, Xiang-Yu (Nanjing University)

Presenter: WANG, Xiang-Yu (Nanjing University)

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