

Two-component model of gamma-ray emission for Fermi/LAT-blazars

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In this talk, we will present a two-component model of the γ -ray emission which assumes that the total γ -ray output of blazars consists of relativistically beamed and unbeamed components. 584 Fermi/LAT-blazars are listed in our compiled catalogue. This idea leverages the correlation between the radio core-dominance parameter and the γ -ray beaming factor. We firstly propose a so-called “ γ -ray core-dominance parameter” and we successful divide the γ -ray emission into beamed and unbeamed contributions theoretically for those 584 sources. Our analysis confirms that the γ -ray emission in blazars is mainly from the beamed component.

Author: PEI, Zhiyuan

Presenter: PEI, Zhiyuan

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