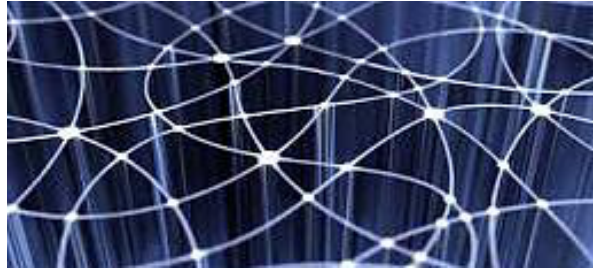


High-performance Signal and Data Processing: Challenges in Astro- and Particle Physics and Radio Astronomy Instrumentation



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Major Unresolved Matters about Blazars and Active Galactic Nuclei

Studies about active galactic nuclei (AGN) and radio jets of galaxies and blazars focus on seeking for the more acceptable physics, explaining energy jet formation, speeding up and collimation of these outflows. We review several articles on this subject to establish the unresolved matters about blazars and AGN in the already conducted studies. The challenge about the theories explaining the origin of ultra high energy cosmic rays (UHECR) is still there for the current day astronomers. The high energy generation and emission in the core of AGN depicts an accelerator that nature presents to us which we all seek to understand and cherish.

Key words: Galaxies, blazars, jets, cosmic rays

Primary author: Mr SIMPEMBA, PROSPERY C. (School of Physics, University of Witwatersrand, Private Bag 3, Wits, 2050, South Africa)

Co-authors: Dr KAUMBA, Chinyama (The Copperbelt University, School of Mathematics and Natural Sciences, Department of Physics, P.O. Box 21692, 10101 Kitwe, Zambia); Prof. COLAFRANCESCO, Sergio (School of Physics, University of Witwatersrand, Private Bag 3, Wits, 2050, South Africa.)

Presenter: Mr SIMPEMBA, PROSPERY C. (School of Physics, University of Witwatersrand, Private Bag 3, Wits, 2050, South Africa)