



Extragalactic TeV Astronomy

Guest Editors:

Dr. John Quinn

School of Physics, University
College Dublin, Belfield, Dublin
D04 V1W8, Ireland

Dr. Deirdre Horan

Laboratoire Leprince Ringuet,
Ecole Polytechnique, CNRS
/IN2P3, 91128 Palaiseau, France

Dr. Elisa Pueschel

Deutsches Elektronen-
Synchrotron (DESY), D-15738
Zeuthen, Germany

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Message from the Guest Editors

The TeV observations provide a key component of the broadband multi-wavelength spectra of these objects, essential to understanding the physical processes at work, and the measurements have also been used to probe fundamental physics. The recent detections of extragalactic gamma-ray source activity in coincidence with IceCube neutrino events, in addition to the recent TeV detections of gamma-ray bursts, have further highlighted the critical role gamma-ray observations play in the multi-messenger context.

The aim of this Special Issue is to review the current state-of-the-art and explore prospects for TeV extragalactic astrophysics. It is particularly timely as the current generation of IACTs will, in the near future, be superseded by the next-generation IACT observatory, the Cherenkov Telescope Array (CTA), and the multi-wavelength and multi-messenger landscapes are evolving. The goal is to address the key questions in TeV extragalactic astrophysics: What have we learned? What are the outstanding issues? What observations, both in the TeV and multi-wavelength context, are needed to address those issues?





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Editors-in-Chief

Dr. Margo Aller

Department of Astronomy,
University of Michigan, Ann
Arbor, MI 48109-1042, USA

Dr. Jose L. Gómez

Instituto de Astrofísica de
Andalucía (IAA-CSIC), Glorieta de
la Astronomía S/N, 18008
Granada, Spain

Message from the Editorial Board

Galaxies provides an advanced forum for studies related to astronomy, astrophysics, and cosmology, including all of their subfields. Different formats, such as specialized research articles, reviews, communications and technical notes are welcomed. Manuscripts containing original and creative research proposals and ideas are especially appreciated.

We encourage scientists to publish their astronomical observations and theoretical results in as much detail as possible. There is no restriction on the paper length and full experimental and methodological details, as applicable, should be provided. All papers will be peer reviewed promptly. On behalf of the distinguished members of the editorial board, I extend my welcome to all researchers working on these subjects to contribute to *Galaxies*.

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Galaxies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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