



Universe and MDPI Editorial Procedure

2019 CCNU - cfa@USTC Junior Cosmology Symposium

Miranda Song-宋茜

MDPI

27 April 2019

Outline

1. *Universe* Introduction

- Journal Scope
- Journal Statistics
- Editorial Board
- Special Issues
- Journal Awards
- Author Benefits

2. MDPI Editorial Process

Part 1: *Universe* Introduction



***Universe* is a peer-reviewed open access journal focused on gravitation, cosmology, particle physics, field theory and relativistic astrophysics, published monthly online by MDPI.**

Journal Scope

- special and general relativity, quantum gravity, string theory and M-theory, modified theories of gravity, gravitational waves
- physical cosmology, black hole physics, physical property of vacuum
- foundations of quantum mechanics, classical field theory, quantum field theory
- theoretical particle physics, fundamental interactions, standard model and beyond
- mathematical physics, conservation laws, symmetry and symmetry breaking
- physical constants
- philosophy and history of physics



Journal Statistics

Universe (ISSN: 2218-1997)

- Founded: 2015 (Volumes: 5)
- 373 articles published (to 31 March 2019)
- Cited in Astrophysics Data System: 3.6
- From Submission to Publication: 46 days
(median values for papers published in this journal in the second half of 2018)
- Indexing:
 - SCIE-Science Citation Index Expanded**
(The journal will receive its first impact factor in June 2019);
 - ADS-Astrophysics Data System**
(in it, Universe papers have been cited 3.6 times on average);
 - Scopus** (Elsevier)

Editorial Board



Editor-in-Chief

Prof. Lorenzo Iorio, Italy

Associate Editor-in-Chief

Prof. Kazuharu Bamba, Japan

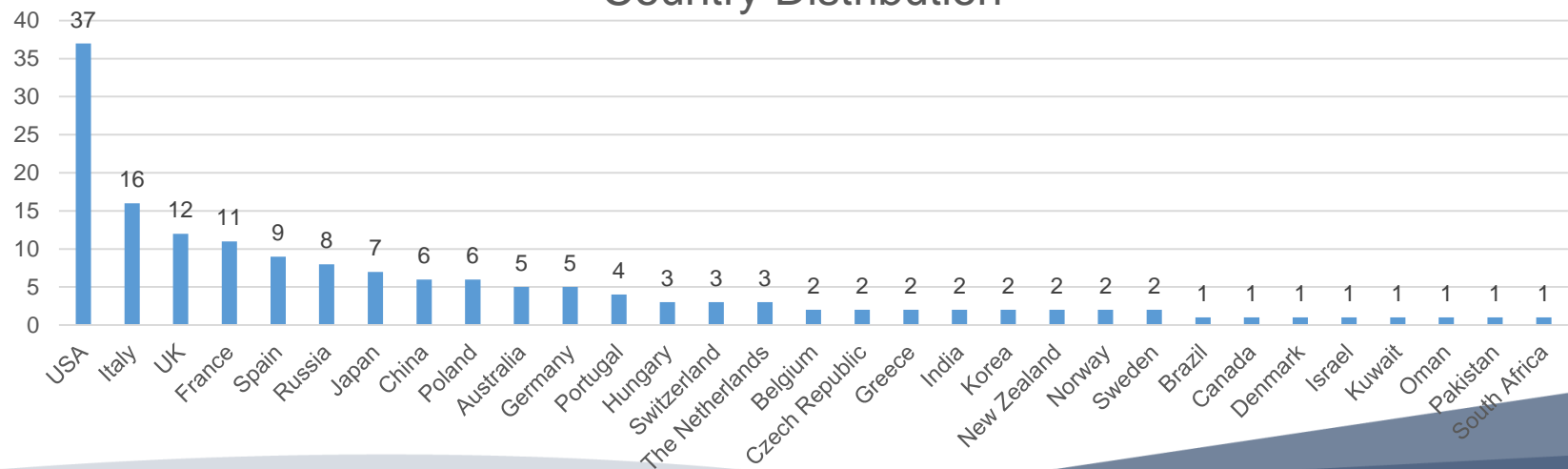
Prof. David Blaschke, Russia

Dr. Máté Csanád, Hungary

Prof. Mariusz P. Dąbrowski, Poland

42 Advisory Board Members and **112** Editorial Board Members from **31** countries.
one **Nobel Prize winner**, one **Highly Cited Researcher**

Country Distribution





Special Issues Open for Submission

- **Universe: Feature Papers 2019 - Gravitational Physics** (Deadline: 31 December 2019)
Guest Editors: Lorenzo Iorio; Neil Turok; Mark Trodden; Orfeu Bertolami
- **Quantum Effects in General Relativity** (Deadline: 15 December 2019)
Guest Editor: Xavier Calmet
- **Inflation, Black Holes and Gravitational Waves** (Deadline: 31 October 2019)
Guest Editors: Yungui Gong, Jiliang Jing, Anzhong Wang, Bin Wang
- **Probing New Physics with Black Holes**(Deadline: 31 October 2019)
Guest Editor: Aurélien Barrau
- **Bounce Cosmology** (Deadline: 30 September 2019)
Guest Editors: Yi-Fu Cai, Chunshan Lin, Antonino Marciano
- **Recent Progress in Relativistic Astrophysics** (Deadline: 31 August 2019)
Guest Editors: Cosimo Bambi, Sourabh Nampalliwar
- **Rotation Effects in Relativity** (Deadline: 31 August 2019)
Guest Editor: Matteo Luca Ruggiero
- **Gravitational Lensing and Optical Geometry: A Centennial Perspective** (Deadline: 30 June 2019)
Guest Editor: Marcus C. Werner



universe

an Open Access Journal by MDPI



Universe Awards

Travel Award 2019

Application deadline (**expired**): 28 February 2019

[view description](#) | [download description](#)



Outstanding Reviewer Award 2018

[view description](#) | [download description](#)



<http://www.mdpi.com/journal/universe/awards>



Author Benefits



Open Access Unlimited and free access for readers



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Thorough and Rapid Peer-Review



Coverage by Leading Indexing Services

SCIE-Science Citation Index Expanded

ADS-Astrophysics Data System

Scopus (Elsevier)



Contact us

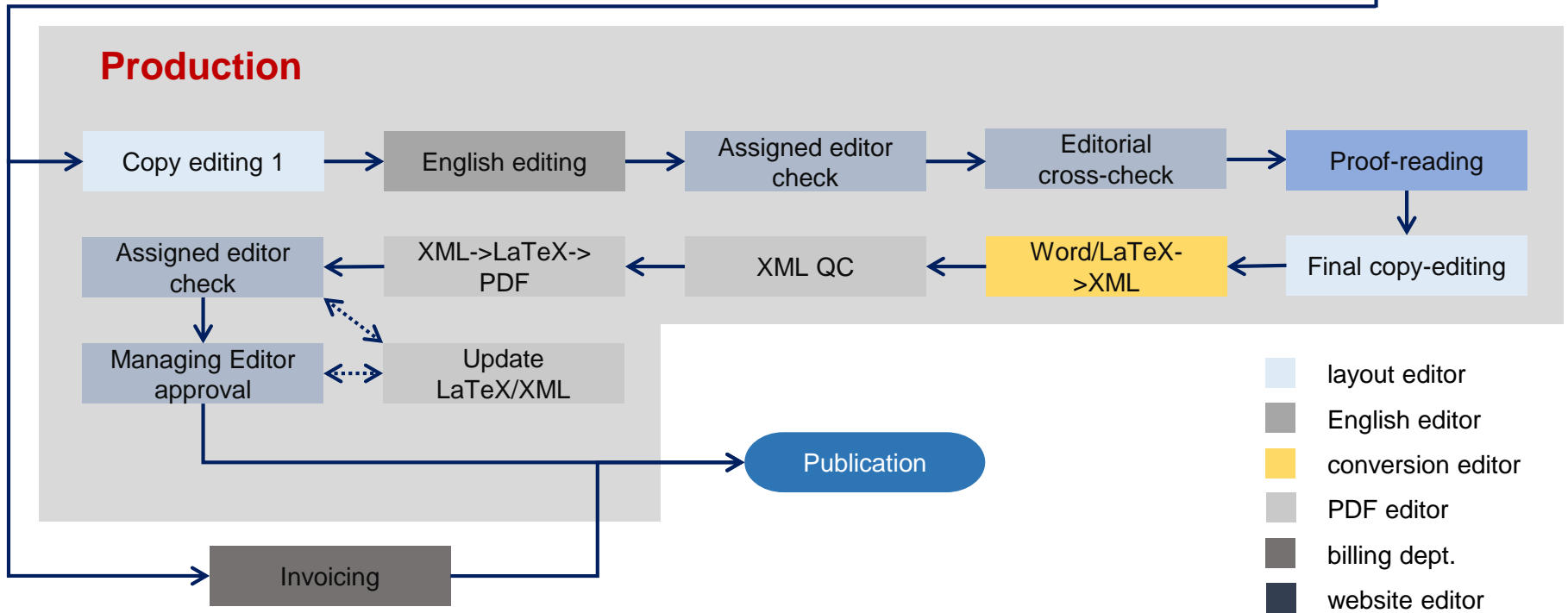
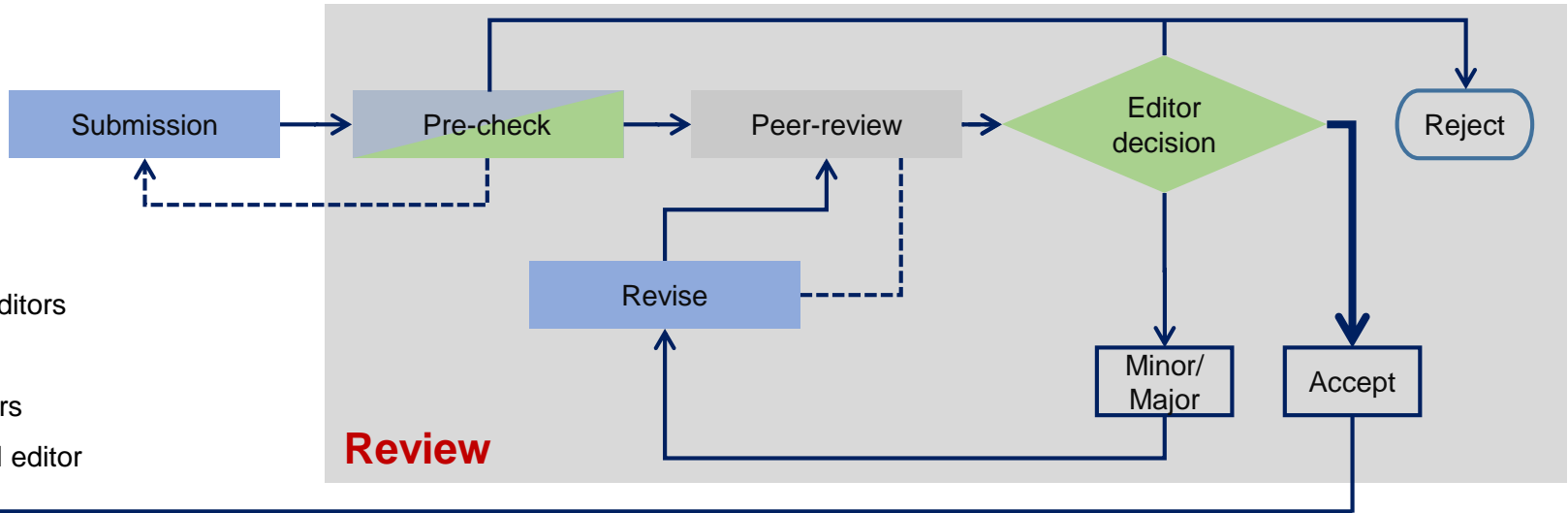
- **Website:** <http://www.mdpi.com/journal/universe>
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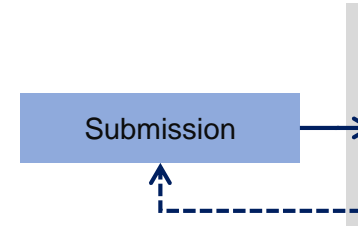
Part 2: MDPI Editorial Process



- MDPI editors
- authors
- reviewers
- external editor

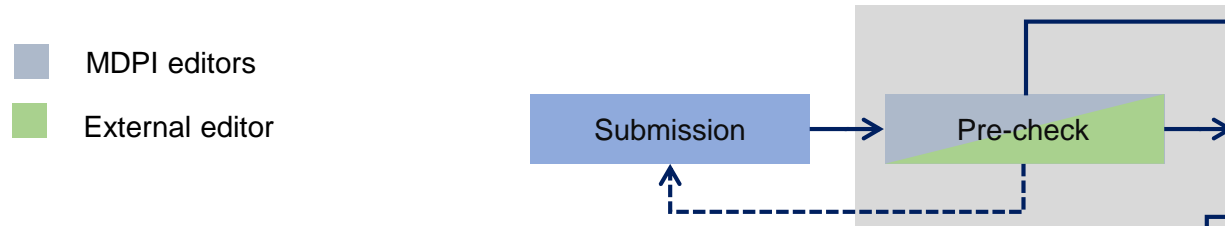


Submission



- Follow the journal's instructions:
<http://www.mdpi.com/journal/universe/instructions>
- Reviewer recommendation
 - Relevant background;
 - Publication records;
 - Ph.D. degree;
 - Without conflict of interests
- Cover letter (**highlight and novelty of papers**);
- Full manuscript: Word/Latex.

Peer review: Pre-check

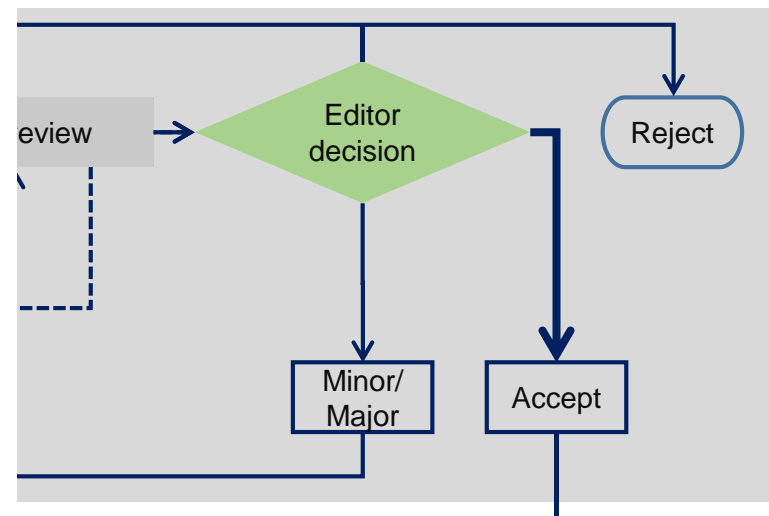
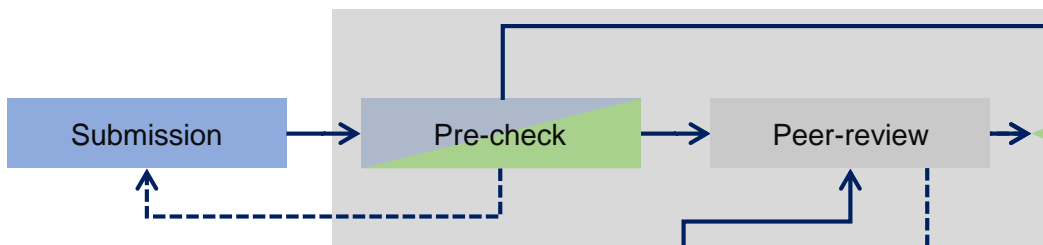


- Journal scope suitability
- Novelty of the content
- Background of author(s): Official email account
- Tables and figures: completed, permission
- References: Timespan
- English
- Manuscript type
- Plagiarism (iThenticate; <https://www.duplichecker.com/>)

Peer Review



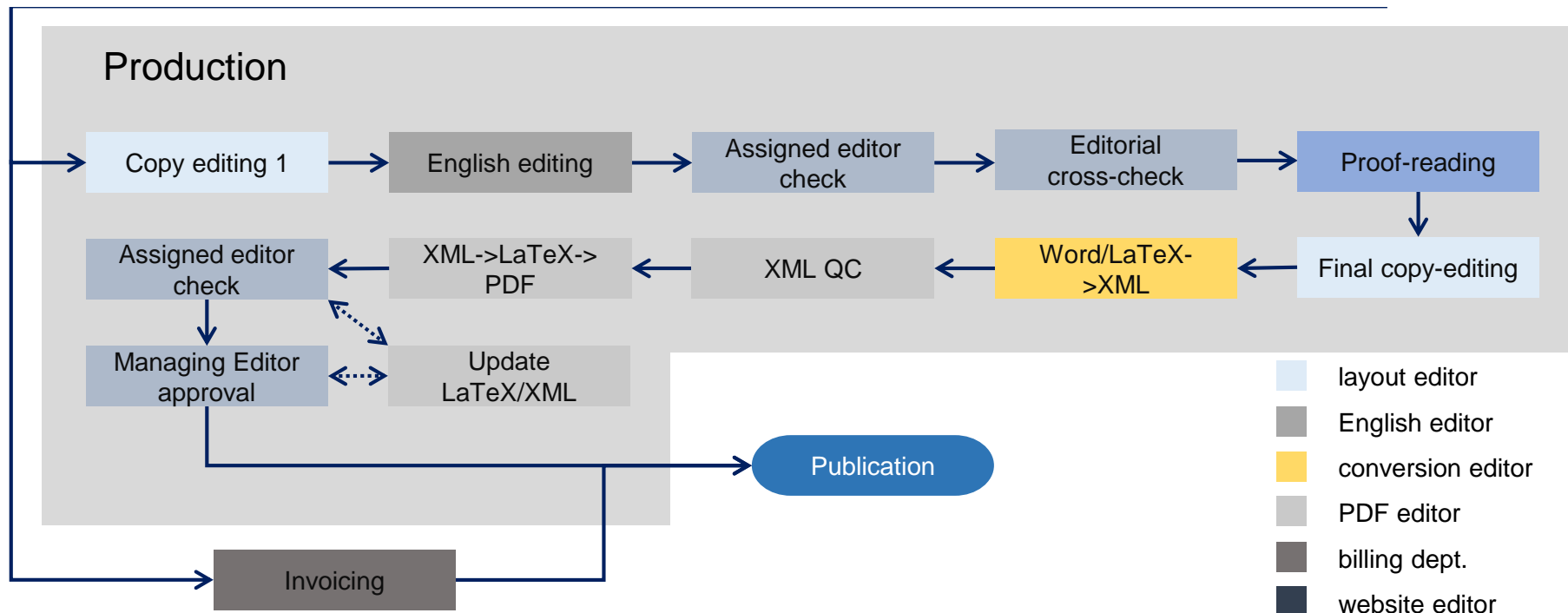
Decision



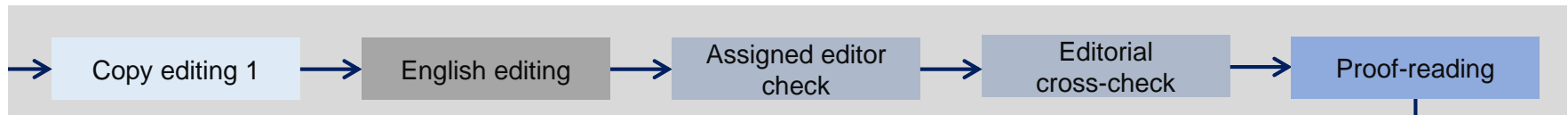
- Single blind
- At least 2-3 **qualified** review reports
 - Accept
 - Minor revision
 - Major revision
 - Reject
- Review time: 1 or 2 weeks
- **Open peer review (since 12 October 2018)**

- External editors make decision(s) based on all review reports (and revised manuscripts) independently
- Overall scientific quality of the paper
- The English of the paper

Production



Proofreading



- Pay attention to **authors' names, emails, affiliations**
- Acknowledgements: **funding information**
- Author's contribution
- Conflicts of interest
- Highlights and comments added by in-house Editor, confirm, reply and revise


Publication

Promotion

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Volume 5, Issue 4

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Universe **2019**, *5*(4), 88; <https://doi.org/10.3390/universe5040088>

Open Access Feature Paper Article
Peer-Reviewed

The Gravitational Magnetolectric Effect

Gary W. Gibbons ^{1,*}✉ and Marcus C. Werner ^{2,*}✉

¹ Department of Applied Mathematics and Theoretical Physics, University of Cambridge, Wilberforce Road, Cambridge CB3 0WA, UK


² Center for Gravitational Physics, Yukawa Institute for Theoretical Physics, Kyoto University, Kitashirakawa Oiwakecho Sakyo, Kyoto 606-8502, Japan

* Authors to whom correspondence should be addressed.

† These authors contributed equally to this work.

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(This article belongs to the Special Issue *Universe: Feature Papers 2019 - Gravitational Physics*)

 PDF [748 KB, uploaded 1 April 2019]

Abstract

Electromagnetism in spacetime can be treated in terms of an analogue linear dielectric medium. In this paper, we discuss the gravitational analogue of the linear magnetolectric effect, which can be found in multiferroic materials. While this is known to occur for metrics with non-zero mixed components, we show how it depends on the choice of spatial formalism for the electromagnetic fields, including in differences in tensor weight, and also on the choice of coordinate chart. This is illustrated for Langevin–Minkowski, four charts of Schwarzschild spacetime, and two charts of pp gravitational waves.

Keywords: magnetolectric effect; general relativity; analogue models

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