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## Investigating the Matter-Antimatter Asymmetry

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Deadline for manuscript  
submissions:

**closed (31 January 2023)**

### Message from the Guest Editors

Particles and antiparticles should have been created in equal amounts in the early Universe; however, the question of why there are more of the former than the latter is an open problem in cosmology. The conditions that produce the asymmetry, as first realized by Andrei Sakharov in 1967, are baryon number violation, violation of charge parity symmetry, and interactions out of equilibrium. Although thought initially only for baryons, a similar procedure should happen for leptons. Indeed, several mechanisms have been proposed to investigate both leptogenesis and baryogenesis. Since lepton and baryon number violations are not expected within the Standard Model, the asymmetry points towards new physics.

This Special Issue focuses on baryogenesis and leptogenesis in a broad context and you are kindly invited to submit both original research articles and review papers.



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**Special** Issue



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## Editor-in-Chief

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## Message from the Editor-in-Chief

The multidisciplinary journal *Universe* is aiming to follow and, hopefully, to lead to the largest extent as possible the ever-self renovating threads which weave mathematical theories with our understanding of the magnificent natural world. On behalf of all the distinguished members of the Advisory and Editorial Boards, I extend my welcome to this journal and look forward to hearing from the interested contributors and learning about their valuable research.

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