



## Cosmic Rays around Supernova Remnants

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submissions:

**closed (30 November 2020)**

### Message from the Guest Editor

Dear Colleagues,

Supernova remnants (SNR) are probably a main source of high-energy particles in the galaxy, although this remains to be proved. Observations of related electromagnetic radiation (gamma rays, X-ray, synchrotron) provide clues to the details of the mechanisms involved in the acceleration and propagation of these cosmic rays (CR). Interaction with nearby gas clouds, amplification of the magnetic field, and secondary particle production in the remnants are of special importance. SNR affect CR observed at the earth, for example secondary positrons and antiprotons, as well as secondary nuclei. Evidence for a nearby recent supernova via radioactive  $^{60}\text{Fe}$  is also changing our view of the subject. This Special Issue aims to cover current research on cosmic rays in and around SNR, both theoretical and observational. Other related sources like pulsar wind nebulae, pulsars and superbubbles, may also be addressed.

Dr. Andrew W. Strong

*Guest Editor*





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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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