

Supernovae

Information on the book

Convenors/editors

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7 October 2016

From the First Circular of the Workshop

Following the Workshop, its output will be published as a volume in the Space Science Series of ISSI by Springer, in parallel with publication of the papers in Space Science Reviews (IF 7.2).

It is expected that a total of about 15 review style and quality papers, submitted to the usual refereeing process, will be published in the book.

Papers will be based talks presented at the Workshop and will be moderated by the discussions in splinter groups.

SPACE SCIENCE SERIES OF ISSI

Supernovae



Editors

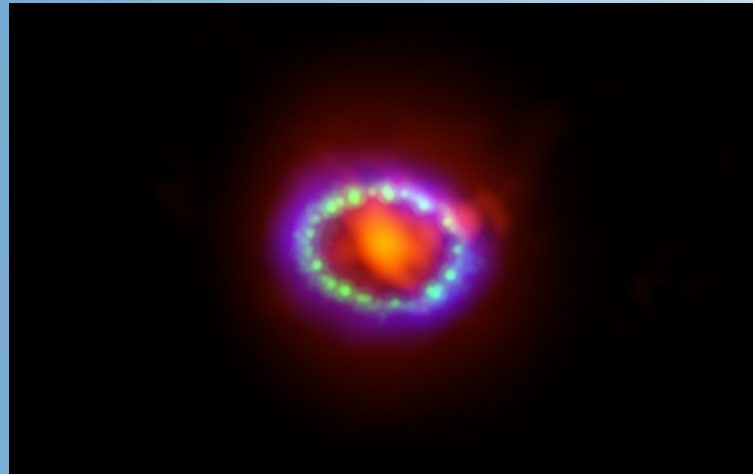
 Springer

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Guidelines for Space Science Reviews, and the Space Science Series of ISSI books.

Word count: about 680/page

Character count: about 3500/page

Characters with spaces count: about 4100/page

Number of lines on the page: 49

Words per line: about 14 (average)

Book size target: 350 to 500 pages

Publication charges and colour figures: Paid for by ISSI

Draft Outline of the Book (tentative titles and authors):

The following issues of current interest are to be addressed in the workshop:

- (i) The current status and perspective of Type Ia and core collapse supernova observations and modeling
- (ii) The role of Type Ia supernovae in cosmology
- (iii) Stellar and supernovae nucleosynthesis
- (iv) Supernova progenitors and environments
- (v) Superluminous, faint, and fast evolving supernovae
- (vi) Supernova remnants,
- (vii) Cosmic ray, neutrino, and dust production in supernovae

Special attention will be given to the physics of unusual supernovae including superluminous, faint, and fast evolving supernovae. Future multi-messenger studies in the entire band from radio to gamma-rays, combined with the fast growing neutrino and gravitational wave facilities, will be discussed in the workshop and presented in the ISSI Springer book.

0. Introduction/foreword (Editors)

- | | |
|-------------------------------------|--|
| 1. Type Ia supernova cosmology | Mark S., Bruno L. |
| 2. Surveys | Subo D. |
| 3. Observations of supernovae | Peter L., Claes F. |
| 4. Type Ia physics | Fritz R., Stuart S. |
| 5. Type Ia supernovae | Ken N. |
| 6. CC physics | Adam B. |
| 7. CC physical processes | Sean C., Thomas J. |
| 8. Superluminous SNe | Elena S., Takashi M., Roger C. |
| 9. SN short time interactions | Nathan S., Maria D., Tony P. |
| 10. Later circumstellar interaction | Poonam C. |
| 11. Unusual SNe | Dan M., Rafaella M. |
| 12. Neutrinos | Irene T., Kohta M. |
| 13. Nucleosynthesis | Friedel T., Jordi I., Peter vonB, Perego |
| 14. Dust and related (2 papers) | ., Elisabetta M., Mikako M., Isabelle C, Aki |
| 15. SNR shock physics, abundances | John R., Don E., Andrei B |
| 16. Cosmic rays | Don E., Andrei B., Alexandre M., |

Schedule:

Submission of papers for review to Springer Editorial

Manager:

- 1 April 2017

Review process completed:

- 1 July 2017

Proof editing, production, papers online:

- 1 August 2017

Publication in Space Science Review:

- 15 September 2017

ISSI book publication:

- November 2017

<http://www.editorialmanager.com/spac/>

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<http://spac.edmgr.com/>

It is very IMPORTANT to choose in the upper menu as the type of submission special issue article type "Vol xxx: Supernovae".

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