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| Book Name: | [**Current Research Progress in Physical Science**](https://www.bookpi.org/bookstore/product/current-research-progress-in-physical-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_4688** |
| Title of the Manuscript:  | **X-ray Signatures of Core-Collapse Supernovae Type II** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**International Journal of Astronomy and Astrophysics, 14(3): 220-229, 2024.**

**DOI:** [**https://doi.org/10.4236/ijaa.2024.143014**](https://doi.org/10.4236/ijaa.2024.143014)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **The book chapter investigates the interactions of X-ray radiations obtained from the supernova, 2008ij and their interactions with circumstellar medium (CSM).** From Spectral analysis conducted in Photon Counting (PC) mode the study shows that power-law, blackbody and APEC models provided strong data fits. The study is important in detailing the evolution of X-ray luminosity in its various stages as well as the density distribution, X-ray emission mechanisms and size of the shock front in a core-collapse supernovae such as SN 2008ij.  |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **It is suitable** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract is comprehensive**  |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **It is correct and appropriate for scientific publication** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **They are enough, relevant and recent** |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is suitable |  |
| Optional/General comments | Acronyms and abbreviations should be written in full before being used subsequently in the book chapter. Examples are APEC, CSM, SN, etc that are used before/without the full meanings |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?**  | No ethical issues are detected  |  |

**Reviewer details:**

Michael Ndubisi Nwobodo, Nnamdi Azikiwe University (UNIZIK), Nigeria