

Review Form 1.7

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| Journal Name: | International Astronomy and Astrophysics Research Journal |
| Manuscript Number: | Ms_IAARJ_99279 |
| Title of the Manuscript: | Sheet-like structure formation inside the core of Massive Neutron Star |
| Type of the Article | Review article |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaliaari.com/index.php/IAARJ/editorial-policy>)

PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Compulsory REVISION comments 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments) | Manuscript give a theoretical review of magnetic field and quark matter core impact in neutron stars with very elementary discussion on different aspects. For a beginner this can be useful. Yes Abstract should be improved stating the impact of strong magnetic field on mass-radius properties of neutron stars. Yes No calculations are done in the manuscript. Only statements are made with reference to original work. Authors should perform some calculations related at least related to the conclusion of paper. Authors should give more recent references related to the study of impact of magnetic field on equation of state and mass-radius, tidal deformability parameter like properties. There should be discussion about different astronomical observations on massive stars and related references. | |
| Minor REVISION comments 1. Is language/English quality of the article suitable for scholarly communications? | Yes | |
| Optional/General comments | Manuscript need improvement in terms of impact of magnetic field on the properties of compact stars and also some calculations should be performed within some simple model. | |

PART 2:

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) |
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| Are there ethical issues in this manuscript? | (If yes, Kindly please write down the ethical issues here in details) | |

Reviewer Details:

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| Name: | Arvind Kumar |
| Department, University & Country | NIT, India |