

# Nuclear and Emerging Technologies for Space in Today's Society

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**Abstract.** (10 point) The Abstract is to be no more than one page. The word "Abstract" and the following period should be BOLD, but the rest of the text is not bolded. Text should be 10 pt. Times New Roman font, justified alignment. Single line spacing is to be used. Margins are to be 1" on top/bottom and left/right sides of page. The header/footer are to be left blank. Please do not number pages. Note that the initial abstract submitted can be updated following the review process.

**Keywords:** Enter 3-5 specific keywords here.

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Body type is to be 10 point (pt.) font, Times New Roman. The text alignment should be justified. A single (1) hard return should appear between paragraphs. No indentation on the first line of a new paragraph. The First-Level Heading is to be in all capital letters, bold 12 pt. Times New Roman font. The First-Level Heading is preceded by two (2) hard returns. One (1) hard return separates the First-Level Heading from the body of the text.

All other text should be at least 9 pt. font, i.e., figure and table captions. Do not use footnotes. Use of International System of Units (SI) is required.

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Abbreviations and acronyms should be defined the first time they appear in the text.

Referenced are to be cited within the body of the text[1]. References should be numbered sequentially in the order they appear within the text. An in-text reference should be bracketed and appear within the punctuation[2,3].

**Comment [M1]:** Single lines spacing is to be used. Paragraph spacing before and after is to be set to zero (0). Margins are to be 1" on top/bottom and left/right sides of page. The header/footer are to be left blank. Please do not number pages. Note that the initial abstract submitted can be updated following the review process.

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Abstracts are to be no longer than one page, including Title, Author(s), Author Affiliation(s), Abstract and Keywords

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**Comment [M9]:** The Second-Level Heading is to be centered using bold, 12 pt. Times New Roman font. The Second-Level Heading should be preceded by two (2) hard returns and immediately followed by the body of the text.

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Tables need to be on one page and have a caption at the top of the table, in bold. Table numbering is sequential using Arabic numerals, see Table 1. Tables are to be introduced in the text.

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**TABLE 1.** This is an example of a Table Caption. Left Aligned with Table.

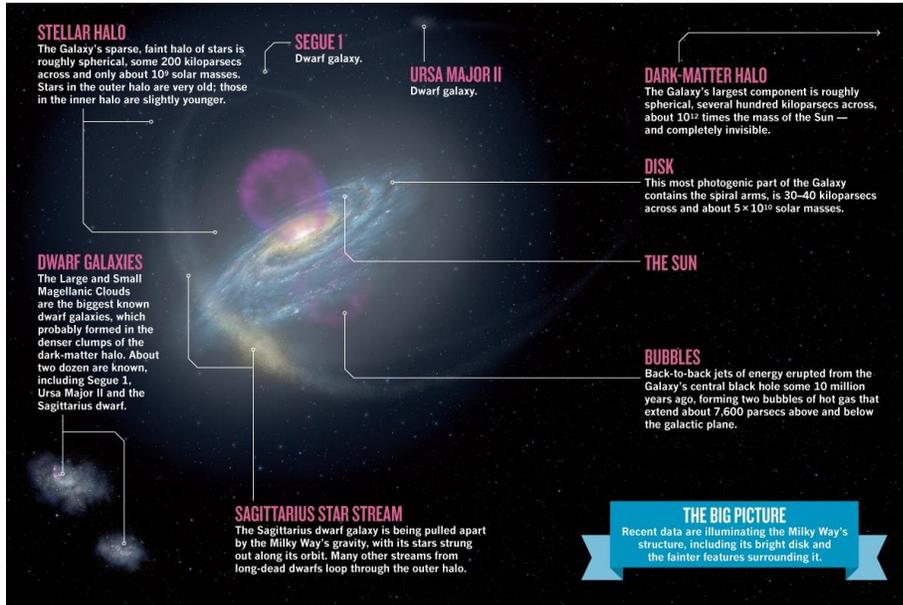
<b>Mode of Transport</b>	<b>Time (s)</b>	<b>Initial Velocity (m/s)</b>	<b>Acceleration (m/s<sup>2</sup>)</b>	<b>Final Velocity (m/s)</b>	<b>Displacement (10<sup>12</sup> m)</b>
USS Excelsior	1889.47	5.45	290,059,507	5.481E+11	517.77
Dark Star	2679.02	9.56	86,314,302	2.312E+11	309.75
Serenity	307.94	22.23	246,850,478	7.602E+10	11.70
Valley Forge	208.90	0	60,316,966	42c	1.32

All equations should be centered and numbered, see Equation (1) and (2).

$$d = v_i t + \frac{1}{2} a t^2 \tag{1}$$

$$v_f = v_i + a \cdot t \tag{2}$$

Figure numbering is to be sequential using Arabic numerals. Figures are to be introduced in the text. Figure 1 gives an example of a table caption that fits entirely on one line.



**FIGURE 1.** Captions Should Be 9 pt. Times Roman Font. Center Caption on Page If One Line of Text [4].

Figure 2 gives an example of a figure caption that is longer than one line.



**FIGURE 2.** Left Align Captions Longer than One Line of Text, as Shown in this Sample Caption. Remember to Capitalize All Important Words in Captions. Capitalize and Bold All Letters in “FIGURE #.” Follow the Figure Number with a Period. Place a Period at the End of Each Sentence/Caption.

## CONCLUSION

Please have a conclusions/summary section at the end of your paper. If a nomenclature section is needed, it will follow the conclusions section. All of the “=” in the nomenclature section should be lined up. This can be done by placing tabs before and after the equals sign (=).

**Comment [M11]:** Note that the Conclusion, Nomenclature, Acknowledgments, and Reference sections are a First-Level Heading and should be formatted accordingly.

## NOMENCLATURE

$c$  = Speed of light,  $3 \times 10^8$  m/s  
 $d$  = Displacement of the object  
 $v_i$  = Initial velocity

$v_f$  = Final velocity at time  $t$   
 $t$  = Time  
 $a$  = Acceleration

## ACKNOWLEDGMENTS

Please include this section acknowledging any company or government contracts or people who lent their assistance either monetarily or otherwise in the preparation of this work. For consistency in these proceedings, please spell ACKNOWLEDGMENTS without the “E” between the G and M.

## REFERENCES

- [1] Brown, M.P., and Austin, K., *The New Physique-Book Name in Italics*, Publisher Name, Publisher City, page#-page#, (year).
- [2] Brown, M.P., and Austin, K., “Title of Paper,” *Appl. Phys. Letters-Journal Name in Italics*, **volume in bold**, page#-page#, (year).
- [3] Garner, C.E., Layman, W., Gavit, S.A., and Knowles, T., “A Solar Sail Design for a Mission to the Near-Interstellar Medium,” in proceedings of *Space Technology and Applications International Forum (STAIF-2000)*, edited by M. El-Genk, AIP Conference Proceedings **504**, New York, pp. 947-961, (2000).
- [4] Finkbeiner, A., “Galaxy Formation: The New Milky Way,” *Nature*, **490**, 24-27, (October 2012), doi:10.1038/490024a

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**Comment [M13]:** The full paper is to be 8-10 pages long.