Seminar 1 Session 06: Reading a textbook

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OpenStax "Astronomy 2e"

Did you download the textbook OpenStax "Astronomy 2e"?

OpenStax "Astronomy 2e"

Have you started reading the textbook OpenStax "Astronomy 2e"?

If you have not yet started reading the textbook OpenStax "Astronomy 2e", come and talk to me during 10-min break today.

We can arrange a time to gather in the classroom for reading the textbook.

A student have chosen this paper.



Abstract of the paper

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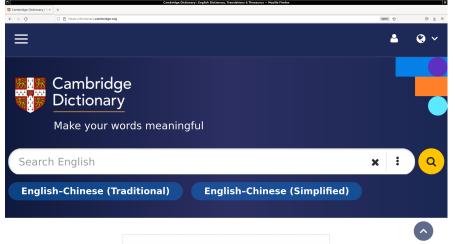
investigation of the population in a broad context relative to the current literature. We use survival analysis to fully include the polarization upper limits in comparison with other GRB properties, such as temporal decay rate, isotropic energy, and redshift. We find no clear correlation between polarization properties and wider sample properties and conclude that larger samples of early time polarimetry of GRB afterglows are required to fully understand GRB

A word "temporal" was chosen by the student.

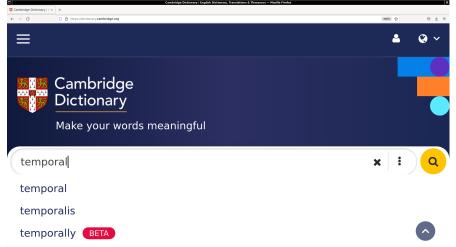
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Cambridge Dictionary



Cambridge Dictionary



Meaning of the word "temporal"



Meaning of the word "temporal"



relating to practical matters or physical things, rather than spiritual ones:

• The tyranny of the monarchy lies in its spiritual rather than its temporal power: it tyrannizes the imagination.



Meaning of the word "temporal"



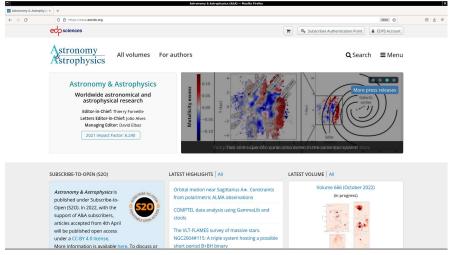
Meaning of the word "temporal"

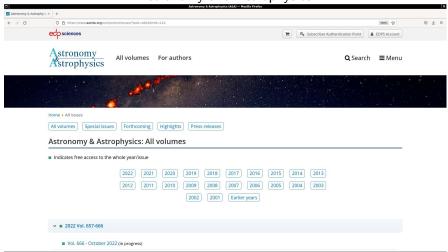


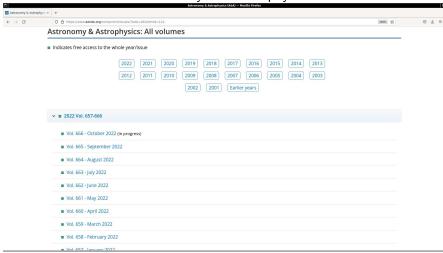
- Meaning of the word "temporal"
 - relating to practical matters or physical things, rather than spiritual ones
 - 2 relating to the temple (= the side of the head behind the eyes) or the temporal bone of the skull beneath the temple
 - relating to time
- What is the meaning of the word "temporal" in following sentence?
 - "We use survival analysis to fully include the polarization upper limits in comparison with other GRB properties, such as temporal decay rate, isotropic energy, and redshift."
- "temporal decay rate"
 - physical matter rather than spiritual?
 - something about the temple?
 - something about time?

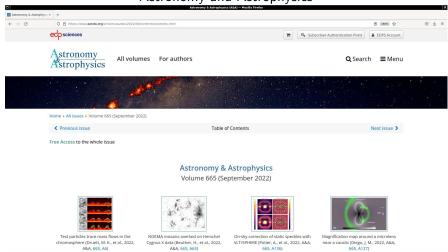
- There may be more than one meaning for a word.
- If there are more than one meaning for a word, you need to find out which meaning is used for the sentence you are reading.
 - You need to read the sentence to find out the answer.
 - You may need to read a few sentences before and/or after the sentence.
- If you are not used to use dictionaries, try some more times.

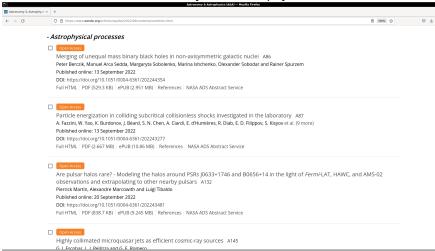
- Visit A&A (Astronomy and Astrophysics) website.
 - https://www.aanda.org/
- Click a link "All volumes".
- Choose Vol. 665 (September 2022).
 - https://www.aanda.org/articles/aa/abs/2022/09/contents/contents.html
- Go through the table of contents, and choose a paper for this exercise.
- Read the abstract.
- Find an English word that you do not know the meaning.
- Use a dictionary (e.g. Cambridge Dictionary, Merriam-Webster Dictionary) to find out the meaning of the word you choose.
- Find a technical term that you do not know the meaning.
- Use an encyclopedia (e.g. Encyclopaedia Britannica, Scholarpedia) to find out the meaning of the term you choose.











- When you finish this exercise,
 - tell us the which paper you have chosen,
 - tell us the English word you have chosen,
 - tell us the dictionary you use,
 - tell us the meaning of the word you have chosen,
 - tell us the technical term you have chosen,
 - tell us the encyclopedia you use,
 - tell us the meaning of the technical term you have chosen.
- If any problem, talk to me.

Any question?

- Any question about the chapter of textbook OpenStax "Astronomy 2e" that you are reading?
- If there is any question, ask about it.

- Visit ApJ (Astrophysical Journal) website.
 - https://iopscience.iop.org/journal/0004-637X
- Choose Vol. 937.
 - https://iopscience.iop.org/volume/0004-637X/937
- Choose the issue "Number 1, 2022 September 20".
 - https://iopscience.iop.org/issue/0004-637X/937/1
- Go through the table of contents, and choose a paper for this exercise.
- Read the abstract.
- Analyse the abstract.
 - What is the context of the abstract?
 - What is the method of the abstract?
 - What is the result of the abstract?
 - What is the discussion of the abstract?
 - What is the conclusion of the abstract?

- When you finish this exercise,
 - tell us which paper you have chosen,
 - tell us the result of your analysis.

- Next week, we will have two oral presentations.
- Who are the speakers next week?
- Is your preparation OK?
 - If you have finished reading the chapter and are making presentation slide, that's good.
 - If you are still reading the chapter, check out how much more things you need to do before the oral presentation.
- Your oral presentation has a big impact to your grade.
- If you have any difficulty, come and talk to me.

- You need to ask at least one question next week.
- If it is not easy for you to ask a question, ask a very simple question.
 - for example, ask the meaning of an English word.
 - What is the meaning of the word "opaque"?
 - for example, ask the meaning of a technical term.
 - What is "photosphere"?
 - What is "differential rotation"?

- If you are the first speaker next week, come to the classroom at 9:45 and set up your computer.
 - Start your talk at 10:00.
- If you are not the first speaker next week, come to the classroom 2-3 min before 10:00.
 - Do not miss the beginning part of the talk.
- We start the talk at 10:00.

- I'll ask very basic questions about math/physics/astronomy.
- If you are a speaker next week, study about basic technical terms before your talk.

Submission of today's exercises

- How to submit your answers to the exercises?
- Go to the web page of the course.
 - https://s3b.astro.ncu.edu.tw/seminar1_202209/
- Find a link to the Google Forms.
- Make a single PDF file that contains answers for both Exercise #1and #2.
- Upload the file.
- Deadline: 10:00 on 12/Oct/2022