

X-ray Lab examination

9–12 December

Mo/Tue/Wedn: 9:15-15:30, Thu: 9:15-18 (maybe not the entire day)

OPTIONAL: oral exam at the end of the whole course in April/May (TBC)

Evaluation criteria: Grade 'in trentesimi (similarly to the other two lab course), then **average**

- Commitment during the two weeks of the X-ray lab
- Capability of tackling problems and going deeper into the proposed scientific issues by reading papers and books
- Presentation of the results, content of the presentation, use of the proper scientific language

How it works – Rules and suggestions

1. About 10 minutes/student. Questions are typically at the end of each of the sub-parts of your presentation
2. The number of slides is indicatively 1 slide/minute. You must select what you want to show us and your main results (not everything!)
3. Prepare your presentation in such a way that it can be easily sub-divided into 3 sub-parts (if the group is made of 3 persons, ...)
4. We will randomly decide who is presenting what in each presentation
5. One of the topics of your presentation should be related to the X-ray instrument lab
6. You can prepare hidden slides to be used just in case you want to properly answer to one of our questions
7. Avoid too many animations
8. It is fundamental that you introduce the source in a broad scientific context (i.e., what is the principal science problem that you may want to address), identify the main points of the process of data analysis and interpretation (within the available time) and that you are fully prepared on these issues

What should be clear in your presentations

- Scientific problem and goals of the project
- Presentation of the source and its main properties
- Data available (having in mind the main characteristics of the adopted X-ray satellites)
- Data analysis
- Presentation of the results and discussion
- **'Instrument' (calibration) lab (IV floor):** goals, instruments, and presentation of the calibration (at either the beginning or at the end of your presentation) **IF chosen as optional part**

**Each student should have all the presentation clear in his/her mind
We will decide who (within each group) is presenting each sub-part of
your presentation**