Lyon/Montpellier master: Remote astrophysics lectures

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Context

• Yearly meeting of French astrophysics masters
  • Low student numbers in many universities
  • Difficult to maintain a pure astro M2 curriculum

→ Idea: inter-university curriculum

• Volunteers:
  • Bordeaux (Jonathan Braine)
  • Lyon (Jean-François Gonzalez)
  • Montpellier (Eric Josselin, then Bertrand Plez)

• Need to cover the local research themes

• "Methods" courses: numerical simulations, signal/image processing, optics…
An astrophysics inter-university M2

• Principle
  • No budget to move students or teachers around
    - Videoconference classes
  • Students hosted within the labs

• Needs
  • Hardware/rooms already in labs
  • University funding

• General physics training in M1: local universities
# Proposed content

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<tr>
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<th>S3</th>
<th>S4</th>
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<tbody>
<tr>
<td></td>
<td>Stellar astrophysics</td>
<td>English</td>
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<td>Interstellar medium</td>
<td>OHP workshop</td>
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<td>Galaxy formation and evolution</td>
<td>Radio workshop</td>
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<td>Internship</td>
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<td>Planeto-logy &amp; exoplanets</td>
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1 box = 3 ECTS = 18h (class) = 36h (UE practical)

- Bordeaux
- Lyon
- Montpellier
A long process...

- Bordeaux: not approved

- Lyon and Montpellier: approved
  - Heads: Jean-François Gonzalez and Bertrand Plez
### Final content

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Lyon Montpellier
2016-2017: first year

- Number of students: 6
- Classes in practice
  - Slides + black/white board
  - Online repository
  - Collaborative work
- Students are happy and motivated... so far!
The future

• Increasing the number of students: looks promising

• Technical improvements
  • Interactive videoprojector
  • Course recording

• Including other partner universities?