

# GT4- summary

- Two main themes: nucleosynthesis (Nu) and compact stars (CS)
- Two main questions:
  - where do the different elements come from?
  - What is the structure of matter under extreme conditions?
- Specificity: interdisciplinarity (In2p3-INSU-INP)
- Past actions:
  - 1 common meeting 2018
  - 1 workshop Nu + 1workshop CS 2019
  - Webinars CS 2020

# GT4- summary

- Next workshops:
  - better link the two aspects of nuclear astrophysics
  - Better link GT4 with the other GTs
    - A half-day meeting on “[globular clusters nucleosynthesis](#)”
    - A 1 day common GT1-GT4 workshop on “[how our nuclear physics knowledge at the dripline impact our understanding of nucleosynthesis processes and supernova neutron star matter](#)”
      - A 2 days workshop on “[X-ray bursts Type I:](#)
        1. Probing neutron star physics using thermonuclear X-ray bursts
        2. Nucleosynthesis: is an experimental program at GANIL/SPIRAL1 really possible or should we look elsewhere?  
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    - A 1 day workshop on [r-process](#) (experiments, theory & modelisation)

# GT4- what's next?

- Other similar more focussed actions? « **1 question-1 proposal workshops** »
  - Define a few precise goals together, a strategy (theory, proposal) to solve one of the questions
  - Example: GMR workshop (GT1) November 2020 showed some possible interfaces!
  - Some ideas:
    - Probing EoS with nuclear structure experiments
    - Probing EoS with HI collisions
    - Weak rates and GT response
    - Pairing gaps?
  - These meetings could be within the GT or among GTs
- Workshops follow up ?
  - Example: nuclear astrophysics with lasers
  - Strategy: (1)workshop report (2) keep the momentum

# Actions other than workshops? (all GTs)

- Involving the young people I: a student&postdoc webinar day
- Involving the young people II: discussion meeting with agenda decided by students
- Students/postdocs visits (2-3 days)
- Thesis codirection

*.... And more ambitious.....*

- Applying for a MC doctoral network ?
- Website with open access codes (JINA way) ?