SkyNet-Scape Room



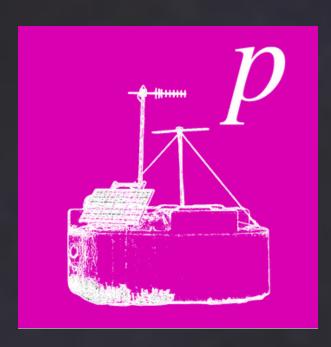
An Escape Room to explore astroparticle physics

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MOTIVATION

- Importance of conveying complex topics with innovative science communication methods
- Escape rooms as useful tools thanks to their ability of combining problem-solving, teamwork and storytelling







THE ESCAPE ROOM

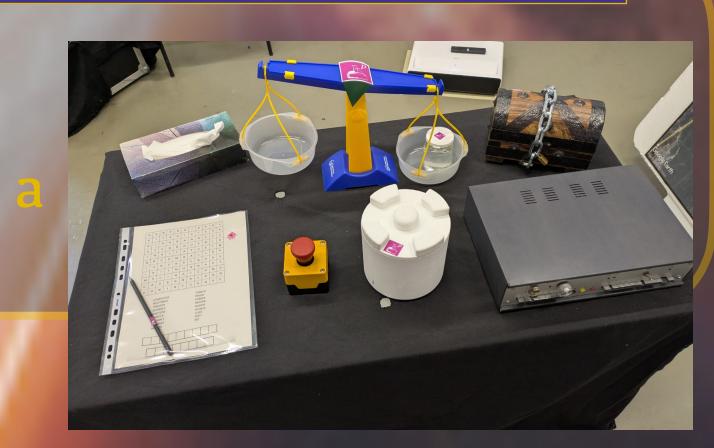
- Goal: Find the origin of an exceptional multimessenger event by combining clues
- Initial video on scientific case
- Focus on three cosmic messengers and the experiments working on their detection
- Three interactive stations with several puzzles and quizzes
- At least one scientific measure or tool typically used in experimental physics per station
- One common final station combining the pieces of information found

OBJECTIVES

- Engage the public in astroparticle physics
- Employ hands-on activities inspired by experimental physics
- Encourage cooperation and team-work, as in scientific research
- Develop an escape room which is portable, low-cost and easily reproducible

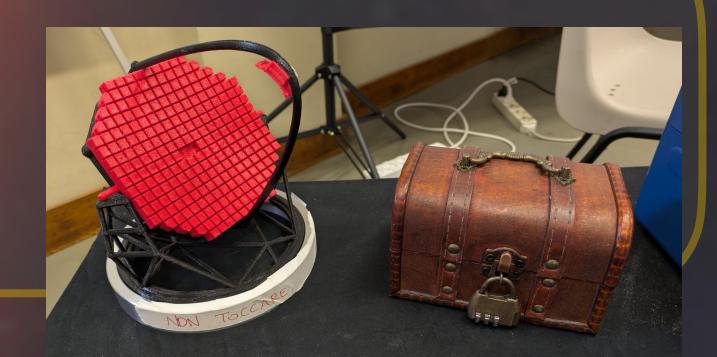
PROTON STATION

- Focused on Pierre Auger
 Observatory
- Measure water weight in tank



GAMMA-RAY STATION

- Focused on MAGIC/CTAO telescopes
- Measure focal length of a spherical mirror



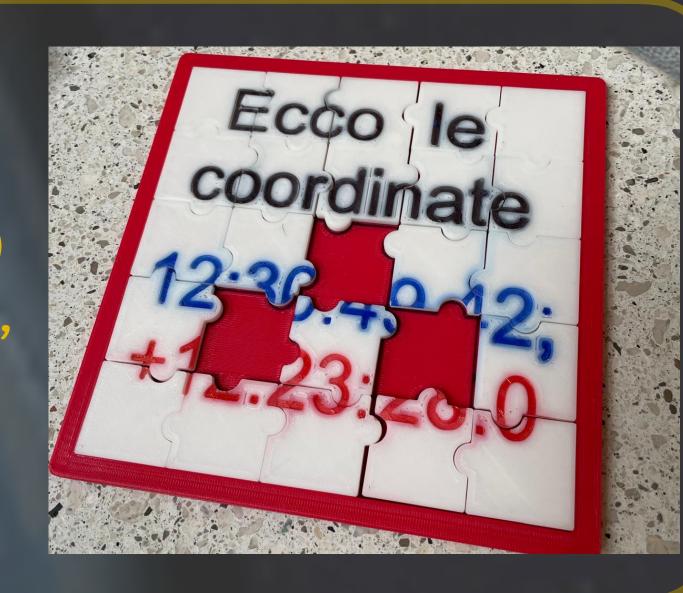
NEUTRINO STATION

- Focused on KM3Net Neutrino Telescope
- Use glove box & find detected particles with a UV lamp



FEEDBACK AND PUBLIC EVENTS

- First test of Gamma-ray station at International Cosmic Day 2024 in Padova
 Useful feedback and suggestions from high-school students
- First public event: European Researchers' Night 2025 in Padova (Science4All)
- Key opportunity to assess the impact of the activity, gain valuable feedback, refine it for future events
- Upcoming event: Fesav Science Festival 2025 in Schio (Vicenza, Italy)
- Plan to submit proposal for Science Festival 2026 in Genova



ACKNOWLEDGEMENTS