

# HIGH-ENERGY NEUTRINO AND COSMIC-RAY ASTROPHYSICS: THE WAY FORWARD

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## TOPICS:

- Where do IceCube's neutrinos come from? What is the best strategy for a future upgrade to IceCube, aimed to address this question?
- What do we learn from UHECR, PeV neutrino, and TeV gamma ray data, combined? What do we expect to learn further with upcoming experiments?
- Are the sources of UHECR and lower energy (Galactic) CR related? What can we learn from new Galactic CR experiments?

## ORGANIZERS:

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# Our main goals

- Discuss
  - The most important open questions,
  - The best experimental approaches for addressing them.
- Identify discrepancies/open issues.
  - Direct discussions (in a politically calm environment).
  - Form small work groups to address specific issues.
- Produce a “white paper”
  - Clear scientific case for next-generation experiments;
  - Coherent and well justified experimental road map;
  - Focus on HE  $\nu$  & CR experiments, discuss HE  $\gamma$  & LE CR role/impact;
  - Aim to complete within 1-2months.

