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CTA and IceCube: the prospects of multi-messenger astrophysics with next-generation gamma-ray and neutrino observatories

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In the last decade, IceCube has enabled multi-messenger astronomy with neutrinos and revolutionized the field of astroparticle physics. By combining gamma-ray and neutrino data, significant progress has been made in understanding the most energetic phenomena in the universe. However, there is still much to be explored and understood. As the next-generation instruments for both messengers, such as the Cherenkov Telescope Array (CTA) and IceCube-Gen2, are on the horizon, it is crucial to consider the prospects and strategies for multi-messenger science. The upcoming era of IceCube-CTA synergy holds great potential for advancing our understanding of the universe.

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The CTA SCT Project

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