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Evolution and Next Generation of Large Cosmic-Ray Experiments

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With collaborations involving as many as 32 countries, next generation astro-particle observatories are being built to understand the puzzling origin of the most energetic processes in the Universe. We will review some recent results and the effort behind next generation observatories, which include large arrays of detectors and space missions to study high to ultra-high energy cosmic-rays, neutrinos, and gamma-rays. The great opportunity of world-wide scientific productivity and funding motivates these large-scale efforts, which also face many challenges due to geopolitical events and differences in science funding cultures.