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Gamma-ray and X-ray views of the energetic sky from a multimessenger perspective

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High-energy space observatories have an established history of opening new windows on the energetic universe. Recent observations in the X-ray and gamma-ray domains have revealed new source classes and phenomena that challenge and extend ideas about the sites and properties of astrophysical particle accelerators. As observations of neutrinos, cosmic rays, and gravitational waves become more sensitive, they provide an increasingly important source of information for answering some of the open questions being explored using X-ray and gamma-ray telescopes. Multimessenger studies also promise opportunities to generate questions that photon studies alone have not been able to ask. This talk will review the current gamma-ray and X-ray views of the energetic sky with a focus on interesting areas for multimessenger research.