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Multi-messenger search for the hadronic accelerators in our Galaxy

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The origin of cosmic rays has been a century-old question. As it is challenging to utilize the directional information of cosmic rays to learn about their origin, observing the gamma rays and neutrinos generated by the interactions of cosmic rays around the source regions has been considered to be the best way to study the origin of cosmic rays. In the last decades, there have been remarkable improvements in the measurements of cosmic rays, gamma rays and neutrinos. This rich multi-messenger data should provide a consistent picture of the hadronic accelerators in our Galaxy. I will summarize current observations of multi-messenger observations focusing on the hadronic accelerators in our Galaxy and discuss what near-future observations may advance our current understanding.

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