"Seen and Unseen in The Galactic Center"

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The Galactic Center of the Milky Way and its surrounding ridge environment is home to a wealth of relativistic particle accelerators including supernova remnants, pulsar wind nebula, and the central supermassive black hole Sgr A*, believed to be a significant source of high energy cosmic rays. Additionally, models of cold dark matter predict the Galactic Center to contain the highest density of cold dark matter in our local universe. In this talk I will review the astounding variety of activity in the Galactic Center region, focusing on results from X-ray, radio, and TeV measurements which serve as tracers of high energy cosmic ray interactions with the dense molecular clouds which surround the Galactic Center and its ridge. I will also review the recent observations of the unexplained excess in GeV gamma rays coincident with the Galactic Center. While many possibilities remain, this excess has been interpreted by many to be the first evidence for an indirect detection of dark matter self-annihilation.