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VERITAS Observations of Galactic Compact Objects
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SMITH, Argonne National Laboratories, VERITAS COLLABORATION — After 3
years of observations, VERITAS has accrued a significant amount of data on galactic
compact objects which are believed to be possible sources of TeV gamma rays such
as high and low mass X-ray binaries and magnetars. We present the results of these
observations, focusing specifically on LS I +61 303 which is one of only 3 binaries
to be reliably detected in the TeV gamma-ray regime. Although LS I +61 303
has been extensively studied, the nature of high energy emission from the source
is still poorly understood. We present the results of multi-wavelength observations
conducted between 2006 and 2009 on LS I +61 303 utilizing data from VERITAS
in the TeV gamma-ray regime, RXTE and Swift in the hard X-ray regime, and
Fermi in the GeV gamma-ray regime. While the source is variable in all three of
these energy regimes, a coherent relation (or lack thereof) between emission in these
bands has not yet emerged.

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