



Department of Physics Colloquium

Friday, December 4, 2009 • 4:00 P.M. • 2241 Chamberlin Hall

cookies & coffee served at 3:30 p.m

The Very High Energy Universe



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Host: Montaruli

Our understanding of the very high energy (VHE) universe has progressed rapidly during the last few years as a result of new instruments and exciting discoveries. In particular, ground-based telescopes, such as VERITAS in southern Arizona, have discovered many astrophysical sources of VHE gamma rays, including supernova remnants, binary star systems, blazars, and radio galaxies. These telescopes are also carrying out sensitive searches for the annihilation of particle dark matter. Similar exciting results are arriving from the recently-launched Fermi Gamma-ray Space Telescope. This talk will overview what we know about the VHE universe and describe recent exciting results from VERITAS. The future prospects for high-energy gamma-ray and neutrino astronomy will be summarized.

