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Gamma-ray binaries observed with HESS

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We report on the observations of gamma-ray emitting binaries obtained with the High Energy Stereoscopic System of Cherenkov telescopes. Recent results on PSR B1259-63, HESS J0632+057 and HESS J1018-589 will be reviewed. In the case of PSR B1259-63, a detailed multiwavelength campaign from radio to VHEs has been organized to follow its periastron passage in 2014, including also the occurrence of the expected GeV flaring episode. In HESS J0632+057, a long-term X-ray/TeV monitoring of the source reveals that, although faint, significant VHE fluxes are produced in a wide orbital phase range, whereas the source remains undetected at GeV energies. For HESS J1018-589, the analysis of new HESS data shows significant flux variability, well correlated with that observed at GeVs, which definitely classifies this source as a new VHE gamma-ray binary system. The high-quality HESS observations, combined with data obtained at lower energies, are providing accurate information on the physics of relativistic outflows powered by Galactic compact objects, rising at the same time new enigmas, which will also be discussed.

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