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Discovery of six high-luminosity and high-mass quasars in 0.3<z<0.6

We present the discovery of six low-redshift quasars, identified through spectral observations conducted with the RTT-150 telescope in Türkiye. With redshifts ranging from 0.3 to 0.6, these quasars were selected from candidates listed in the ROSAT survey catalog, focusing on those with i-band magnitudes brighter than 19.5. Our analysis includes detailed modeling of their continuum and emission line properties, which allowed us to estimate their luminosities, central black hole masses, and Eddington ratios. The findings reveal that these quasars exhibit exceptionally high luminosities and high masses for their redshift values, making them rare examples in the low-redshift quasar population. The results contribute to our understanding of quasar characteristics and their role in probing the structure and evolution of the nearby universe.

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