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Survey of Extremely High Velocity Outflows in Quasars from the Sloan Digital Sky Survey's Ninth Data Release SEAN HAAS, CARLA QUINTERO, PAOLA RODRIGUEZ HIDALGO, Humboldt State Univ — We present the first survey of extremely high velocity outflows (EHVO) in quasars from the Sloan Digital Sky Survey data release nine quasar catalog (SDSS DR9Q). Our survey draws from the 87,822 spectral targets in DR9Q. EHVO candidates were identified by measurement of Carbon-IV broad absorption features. Due to the use of C-IV absorption as a marker and the wavelength coverage of SDSS spectra (3,600 - 10,500 $\mathring{A}$) only quasars with z >= 2 were considered for investigation. In order to ensure usable spectral data samples were also limited to spectra with SNR > 10. Spectrum analysis was carried out programmatically with results confirmed by visual inspection. The presented survey is composed of 45 quasars EHVO ranging in velocity from ∼50,000 to 30,000 km/s. Our survey will be made available online as a publicly accessible database.

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