Abstract Submitted
for the FWS17 Meeting of
The American Physical Society

**Lack of Radio-Emission in Quasars with Extremely High Velocity Outflows** CARLA QUINTERO, SEAN HAAS, PAOLA RODRIGUEZ HIDALGO, ABDUL KHATRI, PATRICK HALL, None — We investigated whether there is a connection between radio emission and UV/Optical absorption in quasars. We used the Sloan Digital Sky Survey Data Release 9 (SDSS DR9), which is a public database that includes spectroscopic information of 87,822 quasars. From that, we are working with a subsample of 6,760 quasar spectra looking for outflows at extremely high velocities: outflowing at speeds larger than 10% the speed of light. We selected the brightest quasars and the ones at the right distance from Earth to be able to study the potential presence of these outflows. Our team has developed a python code in order to do this search systematically and has found 45 cases of quasars where the spectra presents extremely high velocity outflows. We will present that we have found a lack of connection between the presence of these extremely high velocity outflows and the quasars showing radio emission radio-loud. Out of the 45 cases, we only find 3 with potential radio loudness. We will discuss how we determine whether the quasars are radio loud and the implications of this lack of radio emission.

Carla Quintero
None

Date submitted: 30 Sep 2017 Electronic form version 1.4