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Search for Heavy Vector-Like Quarks JORDAN WEBSTER, University of Chicago, ATLAS COLLABORATION — We search for singly-produced quarks above the top mass in events with a W or Z boson produced in association with two or three high transverse momentum jets. The vector boson is reconstructed in the $W \to \ell\nu$ and $Z \to \ell\ell$ modes, where ℓ is an electron or a muon. Using 35 pb^{-1} of ATLAS data collected at a center-of-mass energy of 7 TeV, we fit the invariant mass of the system composed of the vector boson and the highest transverse momentum jet to set limits on the heavy quark production cross section.

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