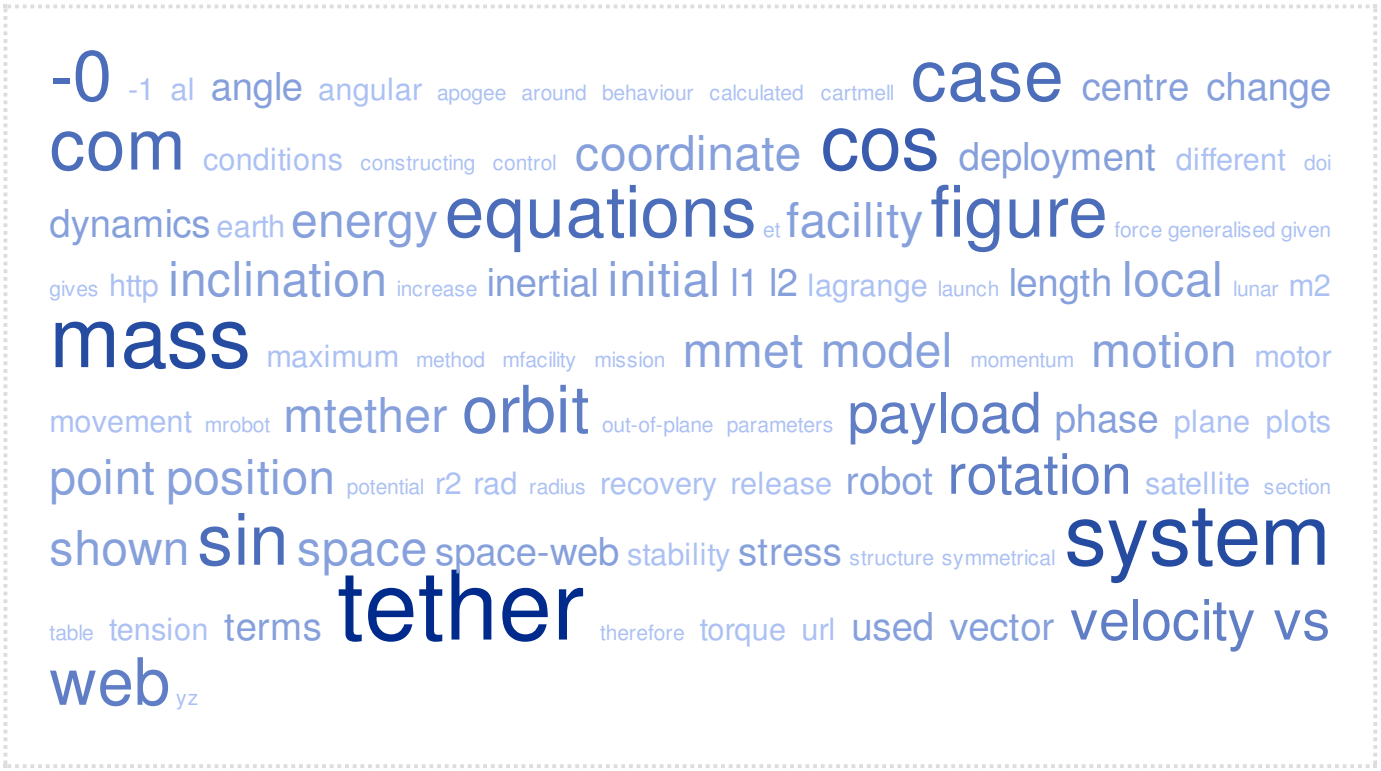
-0 -1 al angle angular apogee around behaviour calculated cartmell case centre change com conditions constructing control coordinate cos deployment different doi dynamics earth energy equations et facility figure force generalised given gives http inclination increase inertial initial l1 l2 lagrange launch length local lunar m2 mass maximum method mfacility mission mmet model momentum motion motor movement mrobot mtether orbit out-of-plane parameters payload phase plane plots point position potential r2 rad radius recovery release robot rotation satellite section shown sin space space-web stability stress structure symmetrical system table tension terms tether therefore torque url used vector velocity vs web yz