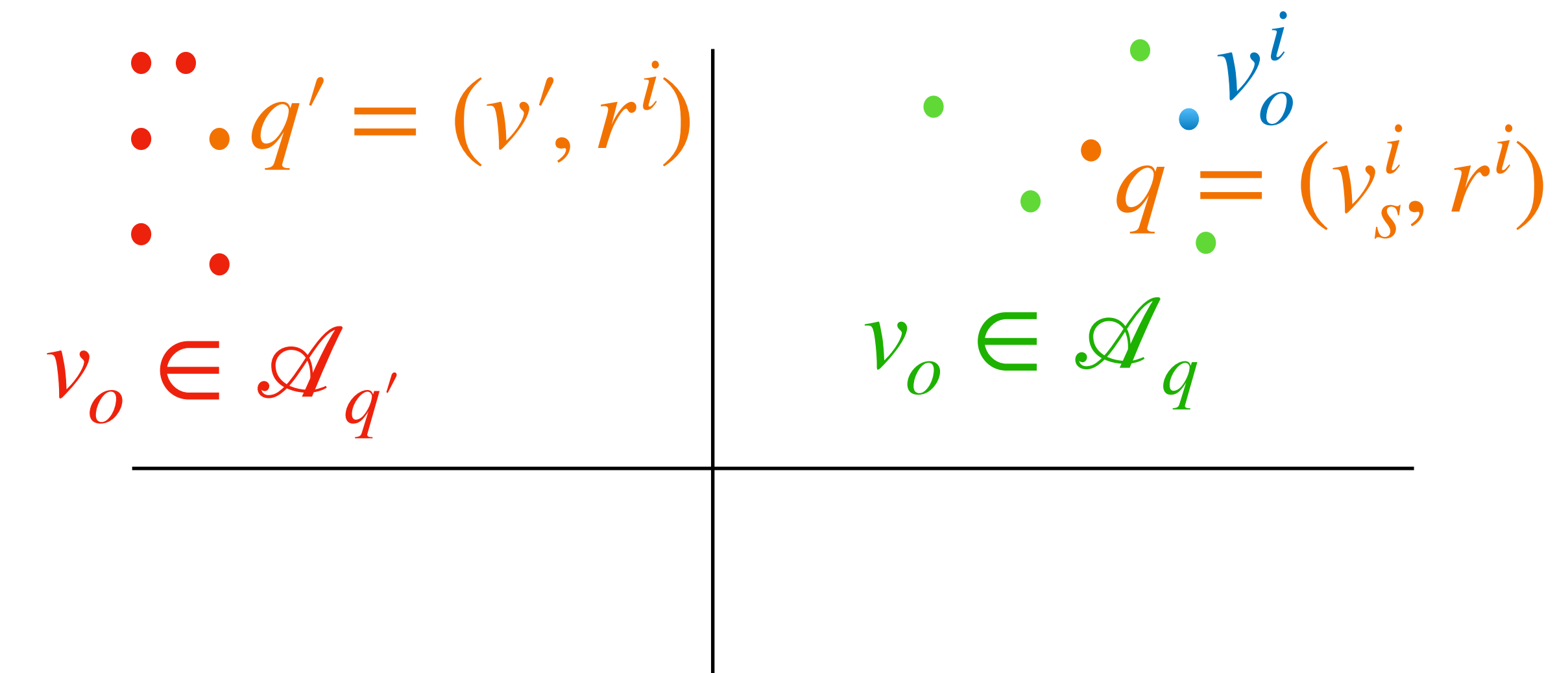


Augment related facts for  $(v_s^i, r^i, v_o^i)$



Align tails with residue

