$$\beta' = \begin{array}{ccccc} n & \longrightarrow & p & \longleftarrow & q \\ \downarrow & & \downarrow & & \downarrow \\ x & \longrightarrow & y & \longleftarrow & z \\ \uparrow & & \uparrow & & \uparrow \\ x' & \longrightarrow & y' & \longleftarrow & z' \end{array}$$