$$u: \stackrel{}{\longleftarrow} \stackrel{}{\longleftarrow} \stackrel{}{\longleftarrow} U_2 \stackrel{}{\longleftarrow} V$$
 $d: \stackrel{}{\longleftarrow} \stackrel{}{\longleftarrow} D_2 \stackrel{}{\longleftarrow} F_2 \stackrel{}{\longleftarrow} E$