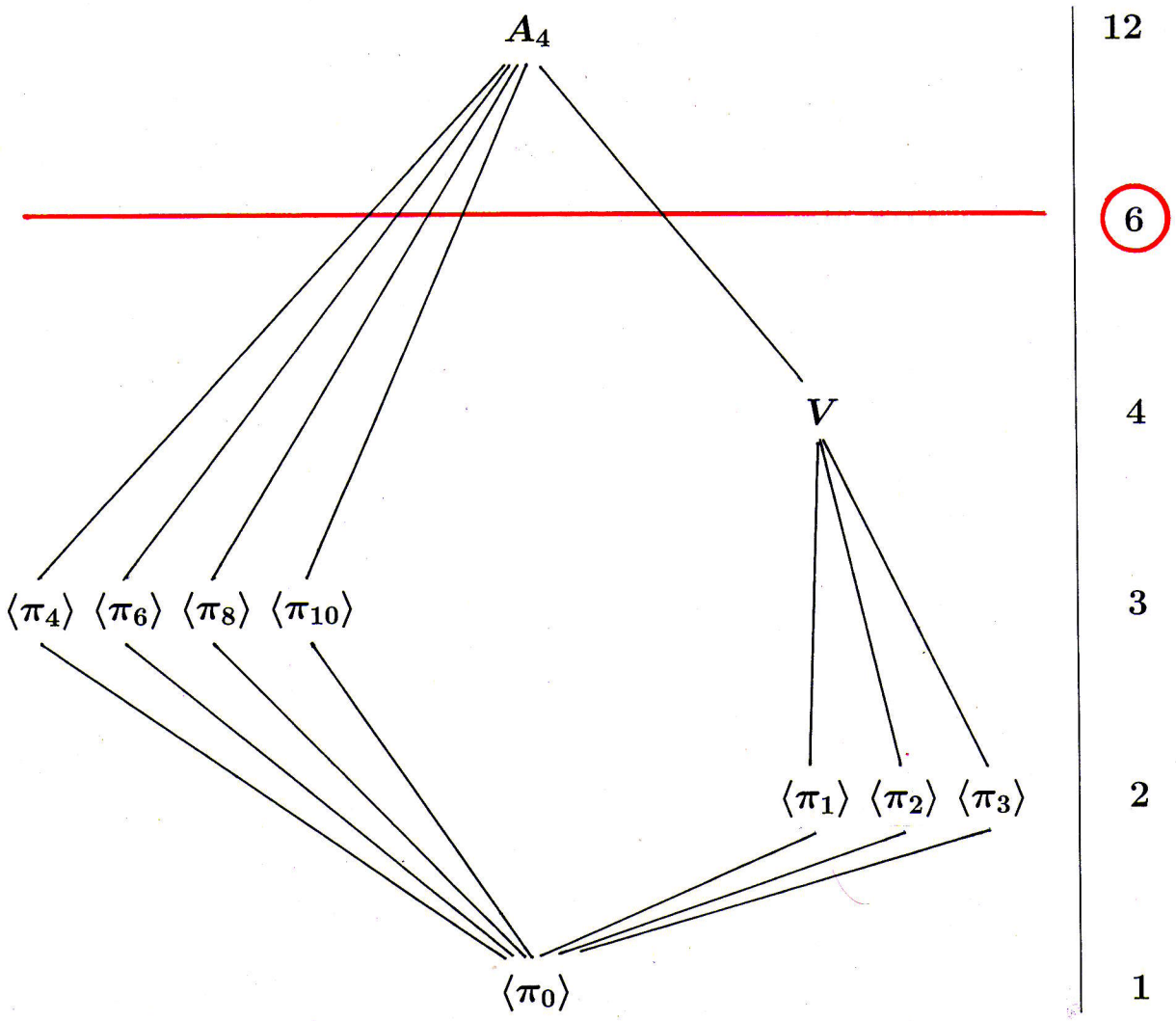
Der Untergruppenverband von $(A_4, \circ)$



Elemente von A_4: $\pi_0 = \varepsilon$ (neutrales Element)

$\pi_1 = (1\ 2)(3\ 4)$, $\pi_2 = (1\ 3)(2\ 4)$, $\pi_3 = (1\ 4)(2\ 3)$,

$\pi_4 = (1\ 2\ 3)$, $\pi_5 = \pi_4^{-1}$, $\pi_6 = (1\ 2\ 4)$, $\pi_7 = \pi_6^{-1}$,

$\pi_8 = (1\ 3\ 4)$, $\pi_9 = \pi_8^{-1}$, $\pi_{10} = (2\ 3\ 4)$, $\pi_{11} = \pi_{10}^{-1}$

$V = \langle\{\pi_1, \pi_2\}\rangle = \{\pi_0, \pi_1, \pi_2, \pi_3\}$ Kleinsche Vierergruppe