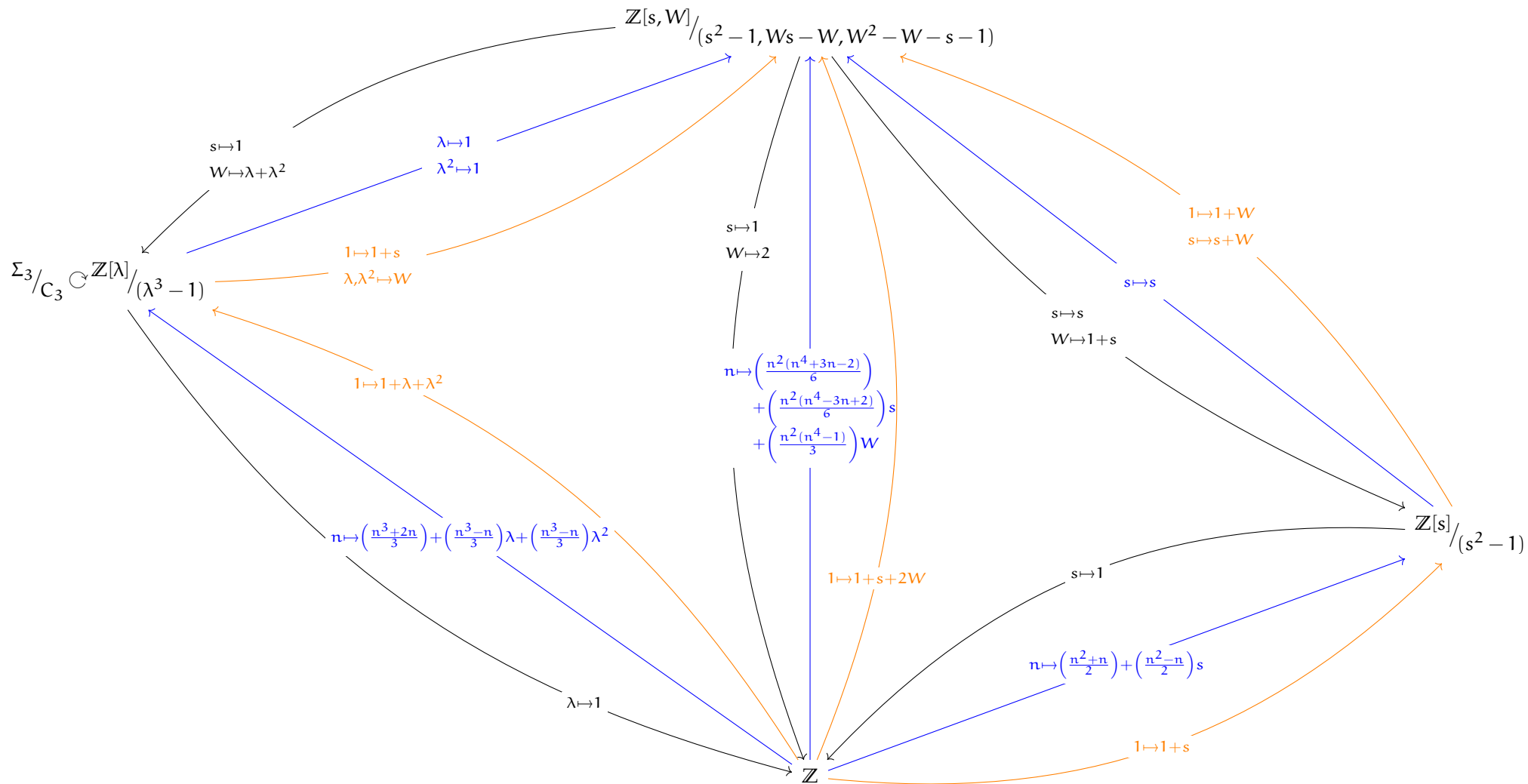


$$\Sigma_3 = \langle \tau, \sigma \mid \tau^2 = \sigma^3 = 1, \tau\sigma\tau = \sigma^2 \rangle$$



$$nm_{C_3}^{\Sigma_3}(a+b) = nm_{C_3}^{\Sigma_3}(a) + nm_{C_3}^{\Sigma_3}(b) + tr_{C_3}^{\Sigma_3}(a(\tau C_3 \cdot b))$$

$$\Sigma_3/C_3 \curvearrowright \mathbb{Z}[\lambda]/(\lambda^3-1) \quad : \quad \tau C_3 \cdot \lambda = \lambda^2 \text{ and } \tau C_3 \cdot \lambda^2 = \lambda$$