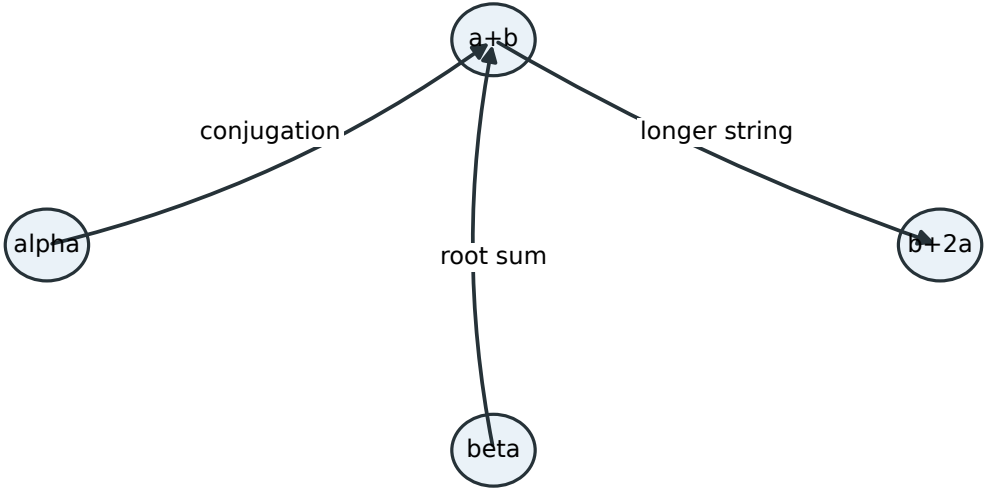
Root-system catalysis skeleton



x_alpha(a) x_beta(b) x_alpha(a)^{-1} = x_beta(b) prod x_{beta+k alpha}(c_k a^k b)