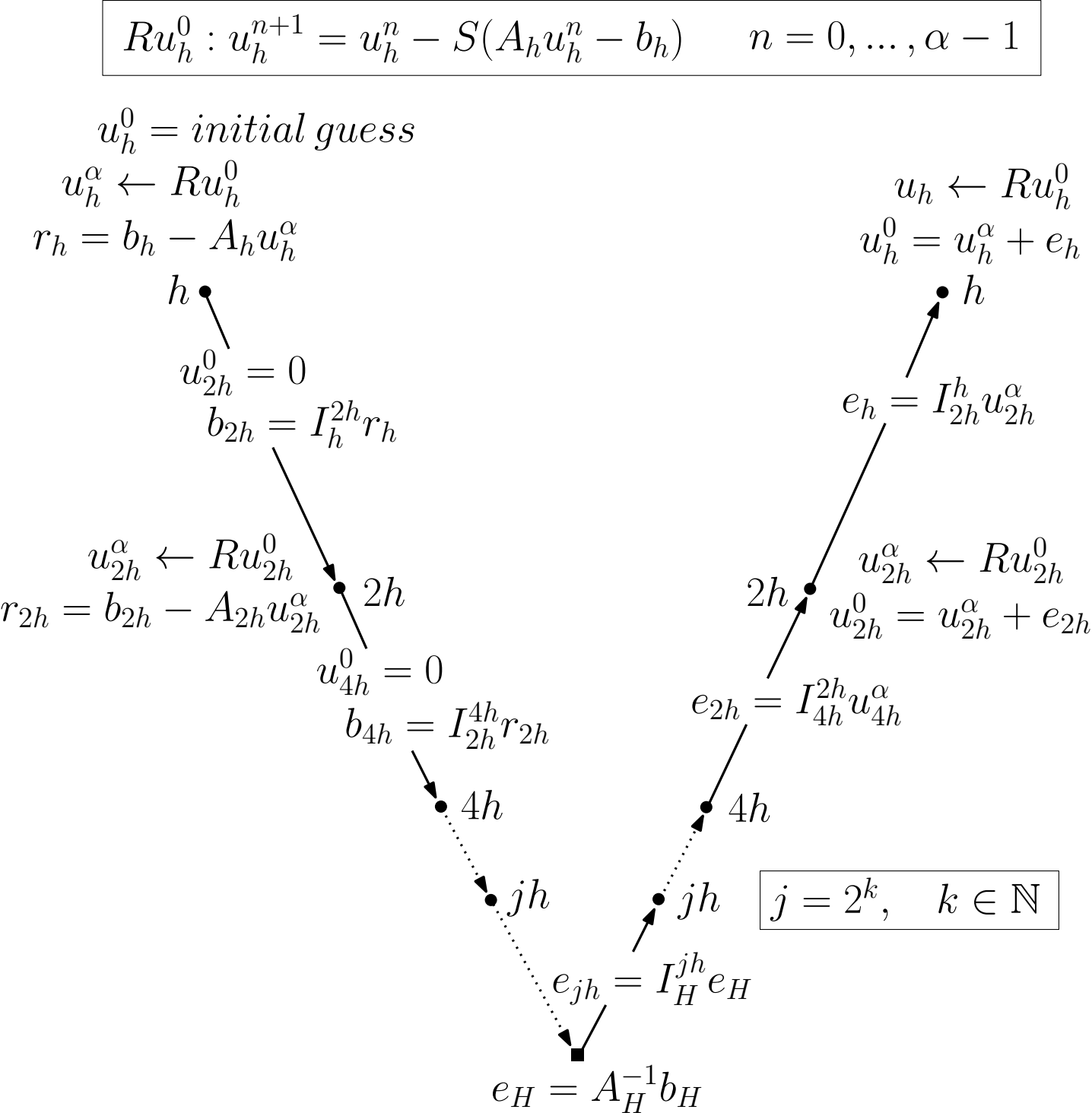
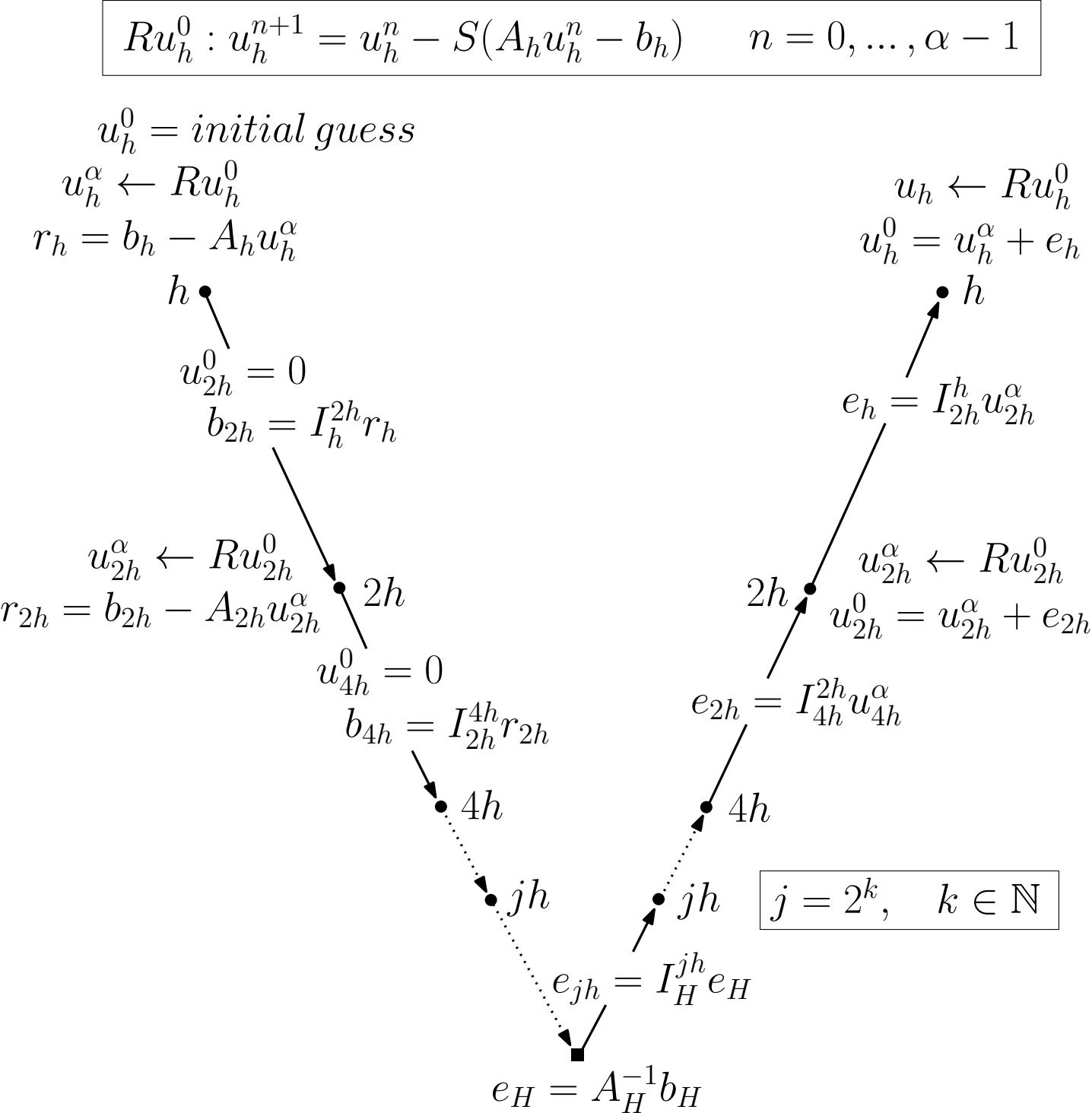

$Ru_h^0 : u_h^{n+1} = u_h^n - S(A_h u_h^n - b_h) \qquad n = 0, \dots, \alpha - 1$
$u_h^0 = initial\, guess$
$u_h^\alpha \leftarrow Ru_h^0$
$r_h = b_h - A_h u_h^\alpha$
h
$u_{2h}^0 = 0$
$b_{2h} = I_h^{2h} r_h$
$u_{2h}^\alpha \leftarrow Ru_{2h}^0$
$r_{2h} = b_{2h} - A_{2h} u_{2h}^\alpha$
$2h$
$u_{4h}^0 = 0$
$b_{4h} = I_{2h}^{4h} r_{2h}$
$4h$
jh
$e_H = A_H^{-1} b_H$
$e_{jh} = I_H^{jh} e_H$
jh
$4h$
$e_{2h} = I_{4h}^{2h} u_{4h}^\alpha$
$2h$
$u_{2h}^\alpha \leftarrow Ru_{2h}^0$
$u_{2h}^0 = u_{2h}^\alpha + e_{2h}$
$e_h = I_{2h}^h u_{2h}^\alpha$
h
$u_h \leftarrow Ru_h^0$
$u_h^0 = u_h^\alpha + e_h$
$j = 2^k, \quad k \in \mathbb{N}$


$Ru_h^0 : u_h^{n+1} = u_h^n - S(A_h u_h^n - b_h) \qquad n = 0, \dots, \alpha - 1$
$u_h^0 = initial\, guess$
$u_h^\alpha \leftarrow Ru_h^0$
$r_h = b_h - A_h u_h^\alpha$
h
$u_{2h}^0 = 0$
$b_{2h} = I_h^{2h} r_h$
$u_{2h}^\alpha \leftarrow Ru_{2h}^0$
$r_{2h} = b_{2h} - A_{2h} u_{2h}^\alpha$
$2h$
$u_{4h}^0 = 0$
$b_{4h} = I_{2h}^{4h} r_{2h}$
$4h$
jh
$e_H = A_H^{-1} b_H$
$e_{jh} = I_H^{jh} e_H$
jh
$4h$
$e_{2h} = I_{4h}^{2h} u_{4h}^\alpha$
$2h$
$u_{2h}^\alpha \leftarrow Ru_{2h}^0$
$u_{2h}^0 = u_{2h}^\alpha + e_{2h}$
$e_h = I_{2h}^h u_{2h}^\alpha$
h
$u_h \leftarrow Ru_h^0$
$u_h^0 = u_h^\alpha + e_h$
$j = 2^k, \quad k \in \mathbb{N}$