Equation assignment sequence for variable k^q

no	var	equ	quations	token
15	17	-	r_z :: port variable	
14	16	-	r_y :: port variable	
13	2	-	t :: port variable	
12	15	-	r_x :: port variable	
11	20	-	S :: port variable	
10	21	-	V :: port variable	
9	19	-	U :: port variable	energy
8	38	22	$v_{zN} := \frac{\partial r_{zN}}{\partial t}$	
7	37	21	$v_{yN} := \frac{\partial r_{yN}}{\partial t}$	
6	36	20	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
5	23	8	$T_N := \frac{\partial U_N}{\partial S_N}$	energy
4	47	30	$k^q_{zN} := (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{zN}$	energy
3	46	29	$k^q_{yN} := (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{yN}$	energy
2	45	28	$k^q_{xN} := (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{xN}$	energy
1	48	31	$k^q_N := Stack\left(k^q_{xN}, k^q_{yN}, k^q_{zN}\right)$	energy
0	65	48	$k^q_N := k^q_N$	energy

$$S \qquad U \qquad r_x \qquad t \qquad r_y \qquad r_z$$

$$T_N = \frac{\partial U_N}{\partial S_N}$$

$$v_{xN} = \frac{\partial r_{xN}}{\partial t} \qquad v_{yN} = \frac{\partial r_{yN}}{\partial t} \qquad v_{zN} = \frac{\partial r_{zN}}{\partial t}$$

$$v_x \qquad V \qquad T \qquad v_y \qquad v_z$$

$$k^q_{xN} = (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{xN} \qquad k^q_{yN} = (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{yN} \qquad k^q_{zN} = (V_N)^{-1} \cdot \frac{\partial U_N}{\partial T_N} \cdot v_{zN}$$

$$k^q_x \qquad k^q_y \qquad k^q_z$$

$$k^q_N = Stack\left(k^q_{xN}, k^q_{yN}, k^q_{zN}\right)$$

$$k^q$$

$$k^q_N = k^q_N$$

$$k^q$$