

## Equation assignment sequence for variable $\hat{n}^d$

no	var	equ	quations	token
15	2	-	$t :: \text{port variable}$	energy mass
14	15	-	$r_x :: \text{port variable}$	
13	21	-	$V :: \text{port variable}$	
12	17	-	$r_z :: \text{port variable}$	
11	16	-	$r_y :: \text{port variable}$	
10	19	-	$U :: \text{port variable}$	
9	18	-	$n :: \text{port variable}$	
8	9	-	$P_N S_A S :: \text{port variable}$	
7	1	-	$F :: \text{port variable}$	
6	36	20	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
5	53	36	$k_{xNS}^d := (\mu_{NS})^{-1} \cdot \left( v_{xN} \odot \left( (V_N)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}} \right) \right)$	energy, mass
4	80	63	$A_{y,zN} := r_{yN} \cdot r_{zN}$	energy, mass
3	70	53	$k_{xNS}^d := k_{xNS}^d$	
2	24	9	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	energy, mass
1	10	6	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	energy
0	87	70	$\hat{n}_{AS}^d := A_{y,zN} \odot \left( -k_{xNS}^d \right) \cdot F_{NS,AS} \overset{NS}{\star} \mu_{NS}$	