

Table 1: Logic Grammar for Dimensional Consistency

$\text{Exp}(\vec{d})$	$\rightarrow$	$\text{Trm}(\vec{d})$	$\text{Trm}(d_1 \oplus d_2)$	$\rightarrow$	$\text{Trm}(\vec{d}_1) \text{ Mul } \text{Trm}(\vec{d}_2)$
$\text{Exp}(\vec{d})$	$\rightarrow$	$\text{Trm}(\vec{d}) \text{ Add } \text{Trm}(\vec{d})$	$\text{Trm}(\vec{d})$	$\rightarrow$	$\text{Var}(\vec{d})$
			$\text{Trm}(0)$	$\rightarrow$	$\text{Const}$
$\text{Add}$	$\rightarrow$	"+"   "-"	$\text{Mul}$	$\rightarrow$	"*"   "/"
$\text{Var}(1,2,-2)$	$\rightarrow$	"T"	$\text{Var}(0,2,0)$	$\rightarrow$	"V"