

Tabla de conversión de parámetros de cuadripolos

	Z		Y		H		H'		T		T'	
Z	z_{11}	z_{12}	$\frac{y_{22}}{\Delta_y}$	$\frac{-y_{12}}{\Delta_y}$	$\frac{\Delta_h}{h_{22}}$	$\frac{h_{12}}{h_{22}}$	$\frac{1}{h'_{11}}$	$\frac{-h'_{12}}{h'_{11}}$	$\frac{t_{11}}{t_{21}}$	$\frac{\Delta_t}{t_{21}}$	$\frac{t'_{22}}{t'_{21}}$	$\frac{1}{t'_{21}}$
	z_{21}	z_{22}	$\frac{-y_{21}}{\Delta_y}$	$\frac{y_{11}}{\Delta_y}$	$\frac{-h_{21}}{h_{22}}$	$\frac{1}{h_{22}}$	$\frac{h'_{21}}{h'_{11}}$	$\frac{\Delta_h'}{h'_{11}}$	$\frac{1}{t_{21}}$	$\frac{t_{22}}{t_{21}}$	$\frac{\Delta_{t'}}{t'_{21}}$	$\frac{t'_{11}}{t'_{21}}$
Y	$\frac{z_{22}}{\Delta_z}$	$\frac{-z_{12}}{\Delta_z}$	y_{11}	y_{12}	$\frac{1}{h_{11}}$	$\frac{-h_{12}}{h_{11}}$	$\frac{\Delta_{h'}}{h'_{22}}$	$\frac{h'_{12}}{h'_{22}}$	$\frac{t_{22}}{t_{12}}$	$\frac{-\Delta_t}{t_{12}}$	$\frac{t'_{11}}{t'_{12}}$	$\frac{-1}{t'_{12}}$
	$\frac{-z_{21}}{\Delta_z}$	$\frac{z_{11}}{\Delta_z}$			$\frac{h_{21}}{h_{11}}$	$\frac{\Delta_h}{h_{11}}$	$\frac{-h'_{21}}{h'_{22}}$	$\frac{1}{h'_{22}}$	$\frac{-1}{t_{12}}$	$\frac{t_{11}}{t_{12}}$	$\frac{-\Delta_{t'}}{t'_{12}}$	$\frac{t'_{22}}{t'_{12}}$
	$\frac{\Delta_z}{z_{22}}$	$\frac{z_{12}}{z_{22}}$	y_{21}	y_{22}	h_{11}	h_{12}	$\frac{h'_{22}}{\Delta_{h'}}$	$\frac{h'_{12}}{\Delta_{h'}}$	$\frac{t_{12}}{t_{22}}$	$\frac{\Delta_t}{t_{22}}$	$\frac{t'_{12}}{t'_{11}}$	$\frac{1}{t'_{11}}$
	$\frac{-z_{21}}{z_{22}}$	$\frac{1}{z_{22}}$					$\frac{h'_{21}}{\Delta_{h'}}$	$\frac{h'_{11}}{\Delta_{h'}}$	$\frac{-1}{t_{22}}$	$\frac{t_{21}}{t_{22}}$	$\frac{-\Delta_{t'}}{t'_{21}}$	$\frac{t'_{21}}{t'_{11}}$
H	$\frac{1}{z_{11}}$	$\frac{-z_{12}}{z_{11}}$	$\frac{\Delta_y}{y_{22}}$	$\frac{y_{12}}{y_{22}}$	$\frac{h_{22}}{\Delta_h}$	$\frac{-h_{12}}{\Delta_h}$	h'_{11}	h'_{12}	$\frac{t_{21}}{t_{11}}$	$\frac{-\Delta_t}{t_{11}}$	$\frac{t'_{21}}{t'_{22}}$	$\frac{-1}{t'_{22}}$
	$\frac{z_{21}}{z_{11}}$	$\frac{\Delta_z}{z_{11}}$	$\frac{-y_{21}}{y_{22}}$	$\frac{1}{y_{22}}$	$\frac{-h_{21}}{\Delta_h}$	$\frac{h_{11}}{\Delta_h}$			$\frac{1}{t_{11}}$	$\frac{t_{12}}{t_{11}}$	$\frac{-\Delta_{t'}}{t'_{12}}$	$\frac{t'_{12}}{t'_{22}}$
	$\frac{y_{22}}{z_{11}}$	$\frac{y_{12}}{z_{11}}$	y_{21}	y_{22}	h_{21}	h_{22}	$\frac{h'_{21}}{\Delta_h}$	$\frac{h'_{22}}{\Delta_h}$	t_{11}	t_{12}	t'_{22}	t'_{22}
	$\frac{y_{21}}{z_{22}}$	$\frac{y_{11}}{z_{22}}$					$\frac{\Delta_h}{\Delta_h}$	$\frac{\Delta_h}{\Delta_h}$			$\frac{t_{11}}{t_{11}}$	$\frac{t_{11}}{t_{11}}$
H'	$\frac{z_{11}}{z_{22}}$	$\frac{\Delta_z}{z_{22}}$	$\frac{-y_{22}}{y_{22}}$	$\frac{-1}{y_{22}}$	$\frac{-\Delta_h}{h_{21}}$	$\frac{-h_{11}}{h_{21}}$	h'_{21}	h'_{22}	$\frac{t_{21}}{t_{11}}$	$\frac{-\Delta_t}{t_{11}}$	$\frac{t'_{21}}{t'_{22}}$	$\frac{-1}{t'_{22}}$
	$\frac{z_{21}}{z_{11}}$	$\frac{\Delta_z}{z_{11}}$	$\frac{y_{21}}{y_{22}}$	$\frac{1}{y_{22}}$	$\frac{-h_{21}}{h_{21}}$	$\frac{h_{11}}{h_{21}}$			$\frac{1}{t_{11}}$	$\frac{t_{12}}{t_{11}}$	$\frac{-\Delta_{t'}}{t'_{12}}$	$\frac{t'_{12}}{t'_{22}}$
	$\frac{y_{22}}{z_{21}}$	$\frac{y_{11}}{z_{21}}$	y_{21}	y_{22}	h_{21}	h_{22}	$\frac{h'_{21}}{h_{21}}$	$\frac{h'_{22}}{h_{21}}$	t_{11}	t_{12}	t'_{22}	t'_{22}
	$\frac{y_{21}}{z_{21}}$	$\frac{y_{12}}{z_{21}}$					$\frac{\Delta_h}{h_{21}}$	$\frac{\Delta_h}{h_{21}}$			$\frac{t_{11}}{t_{11}}$	$\frac{t_{11}}{t_{11}}$
T	$\frac{z_{11}}{z_{21}}$	$\frac{\Delta_z}{z_{21}}$	$\frac{-y_{22}}{y_{21}}$	$\frac{-1}{y_{21}}$	$\frac{-\Delta_h}{h_{21}}$	$\frac{-h_{11}}{h_{21}}$	$\frac{1}{h'_{21}}$	$\frac{-h'_{22}}{h'_{21}}$	t_{11}	t_{12}	$\frac{t'_{22}}{\Delta_{t'}}$	$\frac{t'_{12}}{\Delta_{t'}}$
	$\frac{z_{21}}{z_{21}}$	$\frac{z_{22}}{z_{21}}$	$\frac{y_{21}}{y_{21}}$	$\frac{y_{21}}{y_{21}}$	$\frac{-h_{22}}{h_{21}}$	$\frac{-1}{h_{21}}$	$\frac{h'_{11}}{h_{21}}$	$\frac{\Delta_h}{h'_{21}}$			$\frac{t'_{21}}{\Delta_{t'}}$	$\frac{t'_{11}}{\Delta_{t'}}$
	$\frac{1}{z_{21}}$	$\frac{z_{22}}{z_{21}}$	$\frac{-\Delta_y}{y_{21}}$	$\frac{-y_{11}}{y_{21}}$	$\frac{h_{21}}{h_{21}}$	$\frac{h_{21}}{h_{21}}$	$\frac{h'_{21}}{h_{21}}$	$\frac{h'_{21}}{h_{21}}$	t_{21}	t_{22}	$\frac{t'_{21}}{\Delta_{t'}}$	$\frac{t'_{11}}{\Delta_{t'}}$
	$\frac{y_{21}}{z_{12}}$	$\frac{y_{12}}{z_{12}}$	$\frac{y_{21}}{y_{12}}$	$\frac{y_{12}}{y_{12}}$	$\frac{h_{12}}{h_{12}}$	$\frac{h_{12}}{h_{12}}$	$\frac{h'_{12}}{h_{12}}$	$\frac{h'_{12}}{h_{12}}$			$\frac{t_{21}}{\Delta_t}$	$\frac{t_{22}}{\Delta_t}$
T'	$\frac{z_{22}}{z_{12}}$	$\frac{\Delta_z}{z_{12}}$	$\frac{-y_{11}}{y_{12}}$	$\frac{-1}{y_{12}}$	$\frac{1}{h_{12}}$	$\frac{h_{11}}{h_{12}}$	$\frac{-\Delta_{h'}}{h'_{12}}$	$\frac{-h'_{22}}{h'_{12}}$	$\frac{t_{22}}{t_{21}}$	$\frac{t_{12}}{t_{21}}$	$\frac{t'_{11}}{t'_{21}}$	$\frac{t'_{12}}{t'_{22}}$
	$\frac{z_{12}}{z_{12}}$	$\frac{z_{22}}{z_{12}}$	$\frac{y_{12}}{y_{12}}$	$\frac{y_{12}}{y_{12}}$	$\frac{h_{22}}{h_{12}}$	$\frac{\Delta_h}{h_{12}}$	$\frac{-h'_{11}}{h'_{12}}$	$\frac{-1}{h'_{12}}$	$\frac{t_{21}}{t_{21}}$	$\frac{t_{11}}{t_{21}}$	$\frac{t'_{21}}{t_{21}}$	$\frac{t'_{22}}{t'_{22}}$
	$\frac{1}{z_{12}}$	$\frac{z_{11}}{z_{12}}$	$\frac{-\Delta_y}{y_{12}}$	$\frac{-y_{22}}{y_{12}}$	$\frac{h_{12}}{h_{12}}$	$\frac{h_{12}}{h_{12}}$	$\frac{h'_{12}}{h_{12}}$	$\frac{h'_{12}}{h_{12}}$	Δ_t	Δ_t	$\frac{t'_{11}}{\Delta_t}$	$\frac{t'_{12}}{\Delta_t}$
	$\frac{y_{12}}{z_{21}}$	$\frac{y_{21}}{z_{21}}$	$\frac{y_{12}}{y_{21}}$	$\frac{y_{21}}{y_{21}}$	$\frac{h_{21}}{h_{21}}$	$\frac{h_{21}}{h_{21}}$	$\frac{h'_{21}}{h_{21}}$	$\frac{h'_{21}}{h_{21}}$			$\frac{t_{21}}{\Delta_t}$	$\frac{t_{11}}{\Delta_t}$

Nota:

$$\Delta_z = \det(Z) \quad \Delta_y = \det(Y) \quad \Delta_h = \det(H)$$

$$\Delta_{h'} = \det(H') \quad \Delta_t = \det(T) \quad \Delta_{t'} = \det(T')$$