$$\frac{General radix, recursive Goley - [ukey FFT]}{assume u = km}$$

$$\frac{\partial FT_{wm} = (\partial FT_w \otimes I_m) T_m^u (I_w \otimes \partial FT_m) L_w^u}{radix diagonal mdv:x}$$

$$\frac{\partial FT_{wm} = (\partial FT_w \otimes I_m) T_w \otimes FT_m L_w^u}{radix diagonal mdv:x}$$

$$\frac{\partial FT_w \otimes FT_w$$