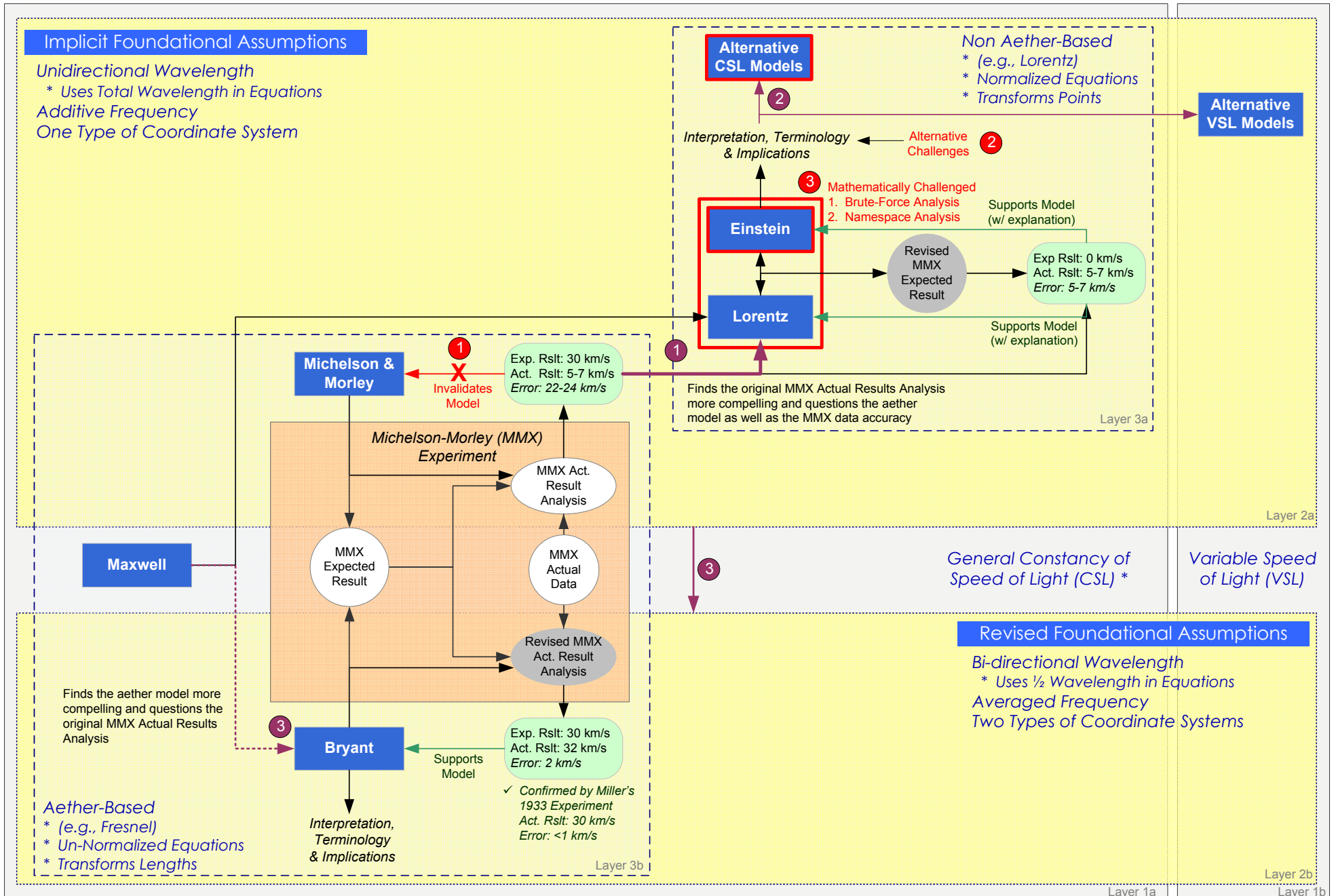


Relationship of Key Foundational Assumptions and Moving System Theories



Lorentz		
Uses λ Additive Frequency Normalized Equations		
Equations	Used As	
$\xi = \frac{x}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\xi = \frac{\lambda}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\xi = \frac{f}{\sqrt{1 - \frac{v^2}{c^2}}}$
$\tau = \frac{t - \frac{vx}{c^2}}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\tau = \frac{\lambda}{c\sqrt{1 - \frac{v^2}{c^2}}}$	$\tau = \frac{f}{c\sqrt{1 - \frac{v^2}{c^2}}}$

Einstein		
Uses λ Additive Frequency Normalized Equations		
Equations	Used As	
$\xi = \frac{x - vt}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\xi = \frac{\lambda}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\xi = \frac{f}{\sqrt{1 - \frac{v^2}{c^2}}}$
$\tau = \frac{t - \frac{vx}{c^2}}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\tau = \frac{\lambda}{\sqrt{1 - \frac{v^2}{c^2}}}$	$\tau = \frac{f}{\sqrt{1 - \frac{v^2}{c^2}}}$

Changed the Fresnel / Michelson equations by Normalizing the Equations, keeping the input values intact

Fresnel / Michelson		
Uses λ Additive Frequency Un-normalized Equations		
Equations	Used As	
$\xi = \frac{x}{1 - \frac{v^2}{c^2}}$	$\xi = \frac{\lambda}{1 - \frac{v^2}{c^2}}$	$\xi = \frac{f}{1 - \frac{v^2}{c^2}}$
$\tau = \frac{x}{c \left[1 - \frac{v^2}{c^2} \right]}$	$\tau = \frac{\lambda}{c \left[1 - \frac{v^2}{c^2} \right]}$	$\tau = \frac{f}{c \left[1 - \frac{v^2}{c^2} \right]}$

Produced MMX actual results that did not match the MMX expected results

Kept the Fresnel / Michelson equations in their un-normalized form, but corrected the "input values" for the equations

Bryant		
Uses $\lambda/2$ Averaged Frequency Un-normalized Equations		
Equations	Used As	
$\xi = \frac{x'}{1 - \frac{v^2}{c^2}}$	$\xi = \frac{\lambda}{2 \left[1 - \frac{v^2}{c^2} \right]}$	$\xi = \frac{f}{2 \left[1 - \frac{v^2}{c^2} \right]}$
$\tau_{\xi} = \frac{x'}{c \left[1 - \frac{v^2}{c^2} \right]}$	$\tau_{\xi} = \frac{\lambda}{2c \left[1 - \frac{v^2}{c^2} \right]}$	$\tau_{\xi} = \frac{f}{2c \left[1 - \frac{v^2}{c^2} \right]}$

$$\frac{\overline{v^2}}{c^2}$$

$$\frac{\overline{v^2}}{c^2}$$