$x(t) = x_0 + v_x t + \frac{a_x t^2}{2}$

$S_g = S_2 + \frac{S_2 - S_1}{\Delta t}\Delta t + \frac{1}{2\Delta t}(\frac{S_2 - S_1}{\Delta t} - \frac{S_1 - S_0}{\Delta t})(\Delta t)^2 = 2.5S_2 - 2S_1 + 0.5S_0, \qquad \Delta t = const$

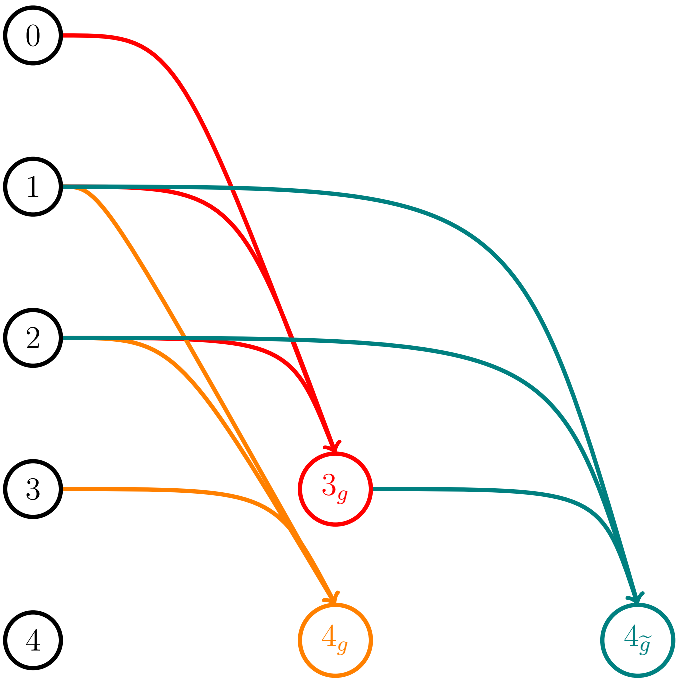
$\theta(lat),\ \varphi(lon),\ h(alt)$

0(self)	...	101
0: $\theta\ \varphi\ h\ t$		0: $\theta\ \varphi\ h\ t$
1: $\theta\ \varphi\ h\ t$		1: $\theta\ \varphi\ h\ t$
2: $\theta\ \varphi\ h\ t$		2: $\theta\ \varphi\ h\ t$
$\theta_g\ \varphi_g\ h_g\ t_g$		$\theta_g\ \varphi_g\ h_g\ t_g$
d	...	d
v_a		v_a
d_g		d_g
v_{a_g}		v_{a_g}
o		o
id		id

$D = \arccos\left(\sin\theta_1 \cdot \sin\theta_2 + \cos\theta_1 \cdot \cos\theta_2 \cdot \cos\left(\varphi_1 - \varphi_2\right)\right) \cdot R_E$

$d^2 = D^2 + h^2$

$v = \frac{\sqrt{d_0} - \sqrt{d_1}}{\Delta t}$



$d_{4-4_g} \leq d_{4-4_{\tilde{g}}} \rightarrow 3 = 3, 4_g = 4_g$

$d_{4-4_g} > d_{4-4_{\tilde{g}}} \rightarrow 3 = 3_g, 4_g = 4_{\tilde{g}}$