

NEWTON-SANTILLI ISOEQUATIONS (1996)
Representation IsoSpace

$$\hat{S}(\hat{t}, \hat{r}, \hat{v}) = \hat{E}(\hat{t}, \hat{\delta}_t \hat{I}_t) \times \hat{E}(\hat{r}, \hat{\delta}_r, \hat{I}_r) \times \hat{E}(\hat{v}, \hat{\delta}_v, \hat{I}_v)$$

$$\hat{I}_{tot} = \hat{I}_t = 1/\hat{T}_t \times \hat{I}_r = 1/\hat{T}_r \times \hat{I}_v = 1/\hat{T}_v$$

$$\hat{t} = t \times \hat{I}_t, \quad \hat{r} = (r_k \times \hat{I}_r), \quad \hat{v} = (v_k \times \hat{I}_r)$$

Newton-Santilli IsoEquation

$$\hat{m}_k \hat{\times} \frac{\hat{d}\hat{v}_k}{\hat{d}\hat{t}} = \hat{F}_k^{SA}(\hat{t}, \hat{r}, \hat{v})$$

Direct universality of the Newton-Santilli IsoEquation for $\hat{I}_t = \hat{I}_r = 1$

$$m_k \frac{d(v_k I_k)}{dt} = m_k \frac{dv_k}{dt} \hat{I}_v + m_k v_k \frac{d\hat{I}_v}{dt} = [F_k^{SA} + F_k^{NSA} \hat{I}_v,$$

$$\hat{I}_v = \Sigma_{k=1,2,3} \text{Diag.} (n_k^2 e^{\Gamma_k(t,r,v)}, \quad \Gamma_k = \int \frac{1}{m_k v_k} F_k^{NSA} \times dt.$$

R. M. Santilli, "Nonlocal-Integral Isotopies of Differential Calculus, Mechanics and Geometries," Rend. Circolo Matem. Palermo, Suppl. Vol. 42, 7-82 (1996),
<http://www.santilli-foundation.org/docs/Santilli-37.pdf>

R. M. Falcon Ganfornina and Juan Nunez Valdes, "Studies on the Tsagas-Sourlas-Santilli Isotopology," Algebras, Groups and Geom. 20, 1 (2003),
<http://www.santilli-foundation.org/docs/isotopologia.pdf>