vendredi 4 octobre 2019 18:01

$$v_{3} \frac{d^{2}}{dt^{2}} r_{2}(t) = \frac{6 M_{7}}{r^{2}(t)} \left(-\frac{r_{2}(t)}{r(t)}\right) v_{2} \frac{d^{2}}{dt} \left|\frac{\chi_{2}(t)}{y_{2}(t)}\right| = \frac{6 M_{7}}{r^{2}(t)}$$

$$\frac{d^{2}}{dt^{2}} \chi_{L}(t) = -\frac{GM_{T}}{V^{3}(t)} \chi_{L}(t)$$

$$\frac{d^{2}}{dt^{2}} y_{L}(t) = -\frac{GM_{T}}{V^{3}(t)} y_{L}(t)$$

$$\left|\frac{d^2}{dt^2}y_{\ell}(t)-\frac{GM_T}{r^3(t)}y_{\ell}(t)\right|$$

$$\frac{d}{dt} V_{L}(t) = -\frac{GM_{T}}{r^{3}(t)} \times_{L}(t) = J(t, \chi(t))$$

$$\frac{d}{dt} V_{Y}(t) = -\frac{GM_{T}}{r^{3}(t)} Y_{L}(t) = J(t, \chi(t))$$

on a: 
$$\frac{dx}{dt} = V \rightarrow \frac{dx_{i}}{dt} = V_{i}(t) = (f(t), V)$$

$$\frac{dy_{i}}{dt} = V_{i}(t) = (f(t), V)$$

$$\begin{cases} v_{x'}(t) = f(t, x(t)) \\ v_{z}(0) = posite_{-x-lune} \end{cases} \qquad \begin{cases} v_{y'}(t) = f(t, y(t)) \\ y_{z}(0) = position_{-y-lune} \end{cases}$$

$$\begin{cases} \chi'_{L}(t) = J(t, \sqrt{t}) \\ \forall'_{L}(t) = J(t, \sqrt{y}(t)) \\ \forall'_{L}(t) = J(t, \sqrt{y}(t)) \end{cases}$$

$$\begin{cases} \forall'_{L}(t) = J(t, \sqrt{y}(t)) \\ \forall'_{L}(t) = V(t) \end{cases}$$

$$\begin{cases} \forall'_{L}(t) = J(t, \sqrt{y}(t)) \\ \forall'_{L}(t) = V(t) \end{cases}$$

$$\begin{cases} \forall'_{L}(t) = J(t, \sqrt{y}(t)) \\ \forall'_{L}(t) = V(t) \end{cases}$$

$$\begin{cases} \forall'_{L}(t) = J(t, \sqrt{y}(t)) \\ \forall'_{L}(t) = V(t) \end{cases}$$

$$\begin{cases} \sqrt{\chi_b} \\ \sqrt{i_{i+1}} = \sqrt{i_i} + \int_{i}^{\infty} (\pm i_i) \cdot \sqrt{i_i} \end{cases}$$

Eighbort calcul: 
$$C_1 = C_2 = \frac{1}{2}$$
  
 $C_4 = \beta = 1$ 

$$V_{4n+1} = V_{6n} + \left[\frac{h}{2}\int_{C} \left[\frac{h}{h}, V_{6n}\right] + \frac{h}{2}\int_{C} \left[\frac{h}{h}, V_{$$

lementer:
$$\int \left[ \int dn \sqrt{h} \right] = -\frac{G \Pi_{T}}{||v||^{2}} \left| \frac{x(f)}{y(h)} \right]$$

$$\int \left( \int dn \sqrt{x(h)} \right) = V_{T}(h)$$

» pour la lomposonte per x:

$$V_{\alpha}(n \rightarrow 1) = V_{\alpha}(n) + \left[\frac{h}{2}\left(-\frac{G\Omega_{T}}{||F||^{3}}\times(n)\right) + \frac{h}{2}\int_{-\infty}^{\infty}$$

$$\sqrt{\chi_{(N+1)}} = \sqrt{\chi_{(N)}} - \frac{h G \int_{\overline{A}}}{2 ||V||^{3}} \chi_{(N)} + \left[ \frac{h}{2} \left( -\frac{G \int_{\overline{A}}}{||V||^{3}} \chi_{(N)} \right) + \frac{h^{2}}{2} \left( -\frac{G \int_{\overline{A}}}{||V||^{3}} \chi_{(N)} \right) \right]$$

$$= \sqrt{\chi_{(N)}} - \frac{h^{2} G \int_{\overline{A}}}{2 ||V||^{3}} \chi_{(N)} - \frac{G \int_{\overline{A}}}{||V||^{3}} \chi_{(N)}$$

$$= \sqrt{\chi_{(N)}} - \frac{h^{2} G \int_{\overline{A}}}{2 ||V||^{3}} \chi_{(N)} - \frac{G \int_{\overline{A}}}{||V||^{3}} \chi_{(N)}$$

$$\sqrt{n(n+1)} = \sqrt{n(n)} \frac{1}{2 || || ||^3} - \frac{GM_T}{|| || ||^3} \times (n)$$

Interract: Lune-Terre - soleil

$$M_{\ell} \vec{a}_{\ell} = \frac{F_{T}}{1} = -\frac{G N_{T} N_{\ell}}{||Y_{T_{\ell}}||^{3}} \times Y_{T_{\ell}}(t)$$

$$\widehat{\alpha}_{L} = -\frac{G\Pi_{T}}{\|Y_{TL}\|^{3}} \times Y_{L}(t) = -\frac{G\Pi_{T}}{\|Y_{TL}\|^{3}} \times |Y_{L}(t)|^{3}$$