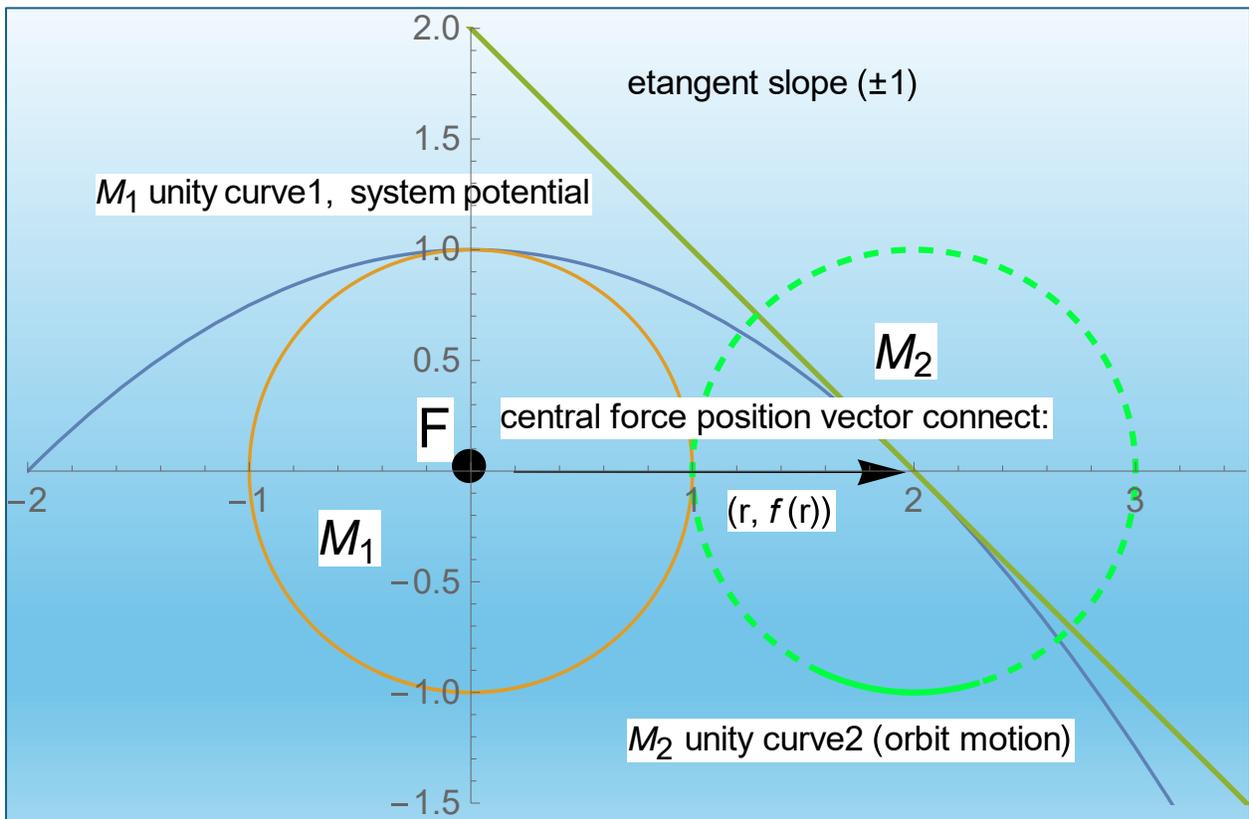


Hello World. And some time since I have published anything. I have been working diligently on an abstract submission. Spent some time going over crossover Point C. That close to a little bit of the Mathematica exploration of that particular coordinate.

```
In[*]:= ParametricPlot[{{t,  $\frac{t^2}{-4} + 1$ }, {1 Cos[t], 1 Sin[t]}, {t, -t + 2},
  {1 Cos[t] + 2, 1 Sin[t] + 0}}, {t, -2, 5},
  PlotRange -> {{-2, 3.5}, {-1.5, 2}}
```

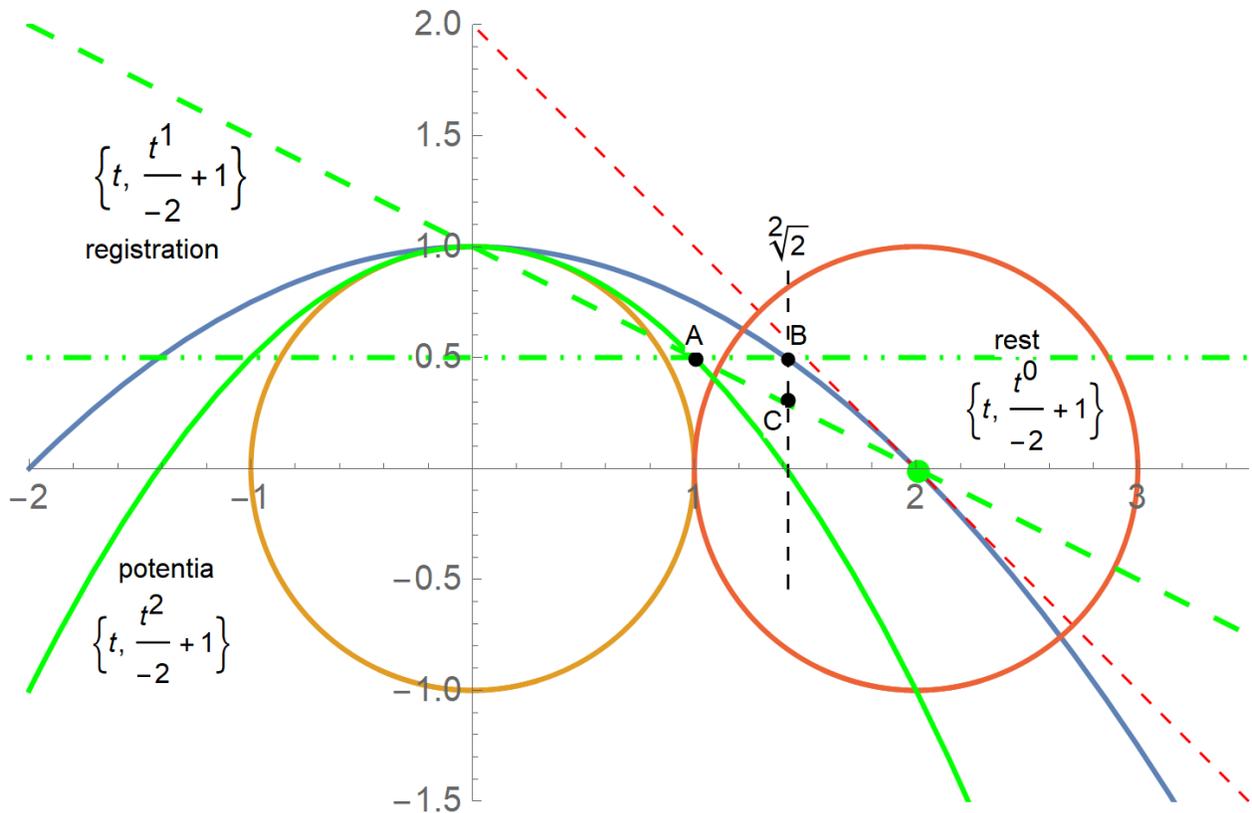


index solution curves on the average energy diameter, High(e) and low(e), displacement integer(2), SC(2), Z#(2), OC(1)

```

In[*]:= ParametricPlot[{{t,  $\frac{t^2}{-4} + 1$ }, {1 Cos[t], 1 Sin[t]}, {t, -t + 2},
  {1 Cos[t] + 2, 1 Sin[t] + 0}, {t,  $\frac{t^0}{-2} + 1$ }, {t,  $\frac{t^1}{-2} + 1$ }, {t,  $\frac{t^2}{-2} + 1$ }},
  {t, -2, 5}, PlotRange -> {{-2, 3.5}, {-1.5, 2}}]

```

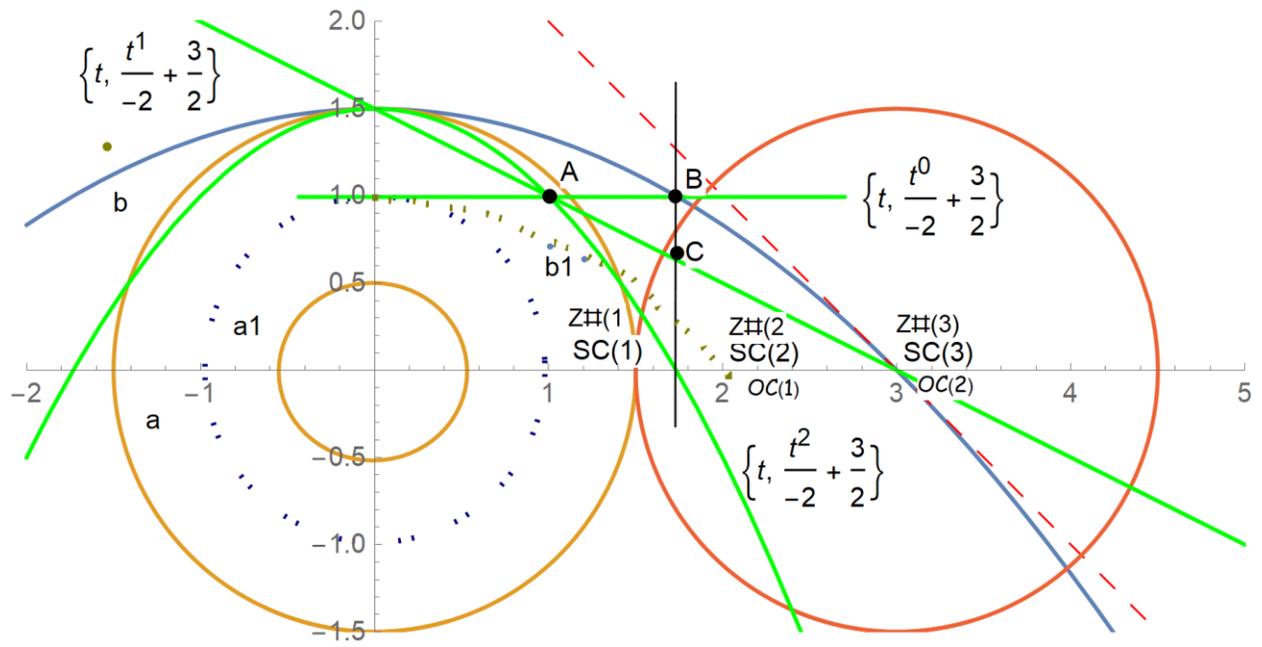


index solution curves on the average energy diameter, High (e) and low (e), displacement integer(3), SC(3), Z#(3), OC(1).

```

In[*]:= ParametricPlot[{{t,  $\frac{t^2}{-6} + \frac{3}{2}$ }, { $\frac{3}{2}$  Cos[t],  $\frac{3}{2}$  Sin[t]}, {t, -t + 3},
  { $\frac{3}{2}$  Cos[t] + 3,  $\frac{3}{2}$  Sin[t] + 0}, {t,  $\frac{t^0}{-2} + \frac{3}{2}$ }, {t,  $\frac{t^1}{-2} + \frac{3}{2}$ }, {t,  $\frac{t^2}{-2} + \frac{3}{2}$ },
  { $\sqrt[2]{3}$ , t}}, {t, -2, 5}, PlotRange -> {{-2, 5}, {-1.5, 2}}]

```



integer	potential	crossover (C)	ordinate (X - over (C))
$n$	$2 * \int_0^{\sqrt[n]{2}} \left( \frac{t^2}{-2} + \frac{n}{2} \right) dt$	$\left\{ \sqrt[n]{2}, \left( \frac{n}{2} - \frac{\sqrt[n]{2}}{2} \right) \right\}$	$\left( \frac{n}{2} - \frac{\sqrt[n]{2}}{2} \right)$
1	$\left( \frac{2}{3} \right)$	$(1, 0)$	$(1, 0)$
2	$\left( \frac{4\sqrt{2}}{3} \right)$	$\left( \sqrt{2}, \left( \frac{2}{2} - \frac{\sqrt{2}}{2} \right) \right)$	$\left( \frac{2}{2} - \frac{\sqrt{2}}{2} \right)$
3	$(2\sqrt{3})$	$\left( \sqrt[3]{2}, \frac{3}{2} - \frac{\sqrt[3]{2}}{2} \right)$	$\left( \frac{3}{2} - \frac{\sqrt[3]{2}}{2} \right)$
4	$\left( \frac{16}{3} \right)$	$\left( \sqrt[4]{2}, \frac{4}{2} - \frac{\sqrt[4]{2}}{2} \right)$	$(2, 1)$
5	$\left( \frac{10\sqrt{5}}{3} \right)$	$\left( \sqrt[5]{2}, \frac{5}{2} - \frac{\sqrt[5]{2}}{2} \right)$	$\left( \frac{5}{2} - \frac{\sqrt[5]{2}}{2} \right)$
6	$(4\sqrt{6})$	$\left( \sqrt[6]{2}, \frac{6}{2} - \frac{\sqrt[6]{2}}{2} \right)$	$\left( \frac{6}{2} - \frac{\sqrt[6]{2}}{2} \right)$
7	$\left( \frac{14\sqrt{7}}{3} \right)$	$\left( \sqrt[7]{2}, \frac{7}{2} - \frac{\sqrt[7]{2}}{2} \right)$	$\left( \frac{7}{2} - \frac{\sqrt[7]{2}}{2} \right)$
8	$\left( \frac{32\sqrt{2}}{3} \right)$	$\left( \sqrt[8]{2}, \frac{8}{2} - \frac{\sqrt[8]{2}}{2} \right)$	$\left( \frac{8}{2} - \frac{\sqrt[8]{2}}{2} \right)$
9	$(18)$	$\left( \sqrt[9]{2}, \frac{9}{2} - \frac{\sqrt[9]{2}}{2} \right)$	$(3, 3)$
10	$\left( \frac{20\sqrt{10}}{3} \right)$	$\left( \sqrt[10]{2}, \frac{10}{2} - \frac{\sqrt[10]{2}}{2} \right)$	$\left( \frac{10}{2} - \frac{\sqrt[10]{2}}{2} \right)$
16	$\left( \frac{128}{3} \right)$	$\left( \sqrt[16]{2}, \frac{16}{2} - \frac{\sqrt[16]{2}}{2} \right)$	$(4, 6)$
20	$\left( \frac{80\sqrt{5}}{3} \right)$	$\left( \sqrt[20]{2}, \frac{20}{2} - \frac{\sqrt[20]{2}}{2} \right)$	$\left( \frac{20}{2} - \frac{\sqrt[20]{2}}{2} \right)$
25	$\left( \frac{250}{3} \right)$	$\left( \sqrt[25]{2}, \frac{25}{2} - \frac{\sqrt[25]{2}}{2} \right)$	$(5, 10)$

Still do not have an idea of how to get Mathematica easy to go as PDF to publish on mywebsite.info. This is the best I can do converting from Wolfram to Word. Set it up.