Wrapping GSL functions

- 1) The faur GSL Aunction calls have been murged into the more precise call "Hamiltonian". Also, is probably faster.
- 2) This code still compiled and ran, yes the 100p worked. I looped from 2 + 20

OpenMP

1) 2 cores on my mac

2) The wall time calculation

3) num-time gually than real by 1025
20 ms three it takes to never variables

2 threads

1 thread

num_time: 5.72958

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CPU: 7.1025

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Wall: 5.753s

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Was there really no change? There should be if your computer indeed has 2 cores.

4) Open MP is shared memory

time punalty to shared memory. Each process has to restort.

Eventually a large N will rause the computer to

Slow down. This means there to an optimal number of threads one should use

Integrating FODEs

3. We can conclude the 4th order R-K method is also "exact", or at least close enough.

4.
$$e^{-t^2/2} = -ty$$

5. They do not scale linearly







