

# Computational Physics

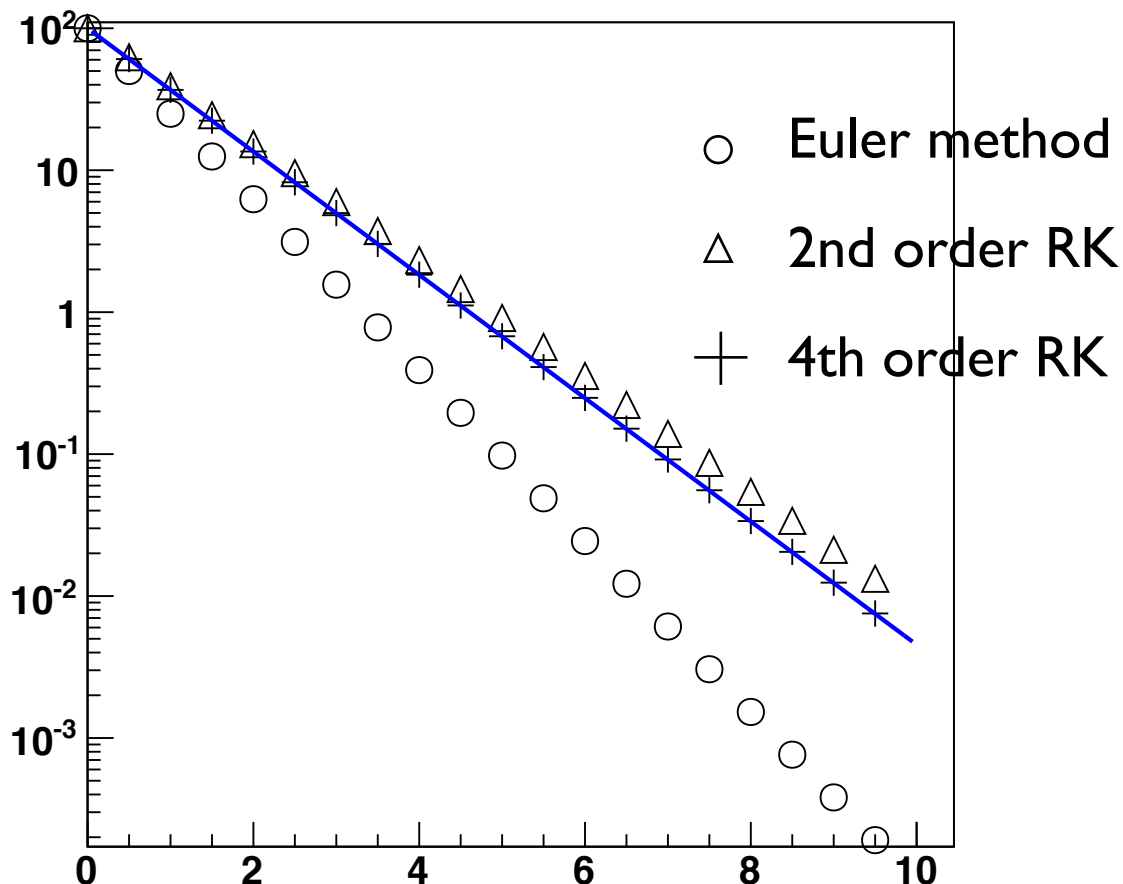
Homework - May 27

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In the class, we discussed the Euler method and 2/4-th order RK method to numerically solve given differential equations.

For example, we've discussed the following figure for the comparison of three methods in the nuclear particle decay example

Graph



Implement three algorithms and make the plot for  $\Delta t = 0.5$  s. How does it look like if  $\Delta t = 0.25$  s? Do you understand the difference between two cases?