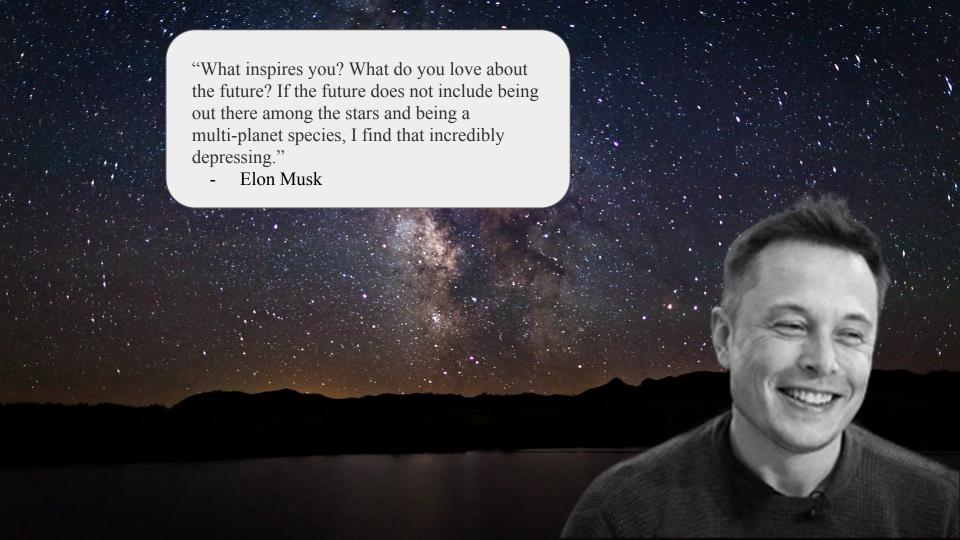
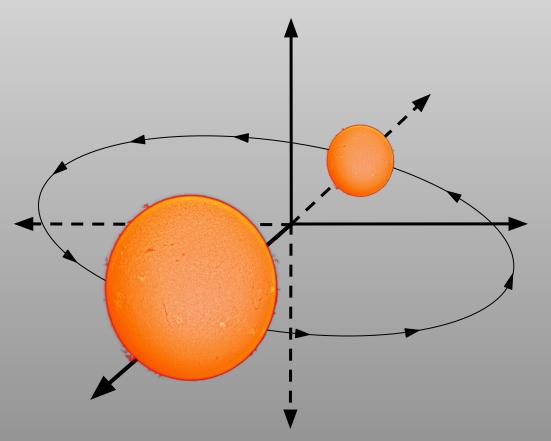
N-body Simulation of Binary Star Mass Transfer using Nvidia GPUs

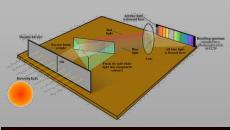
Mason McCallum, Dr. Bryant Wyatt and Dr. Shaukat Goderya

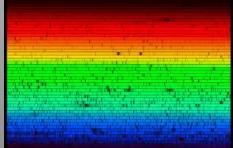




What is a Binary Star System?





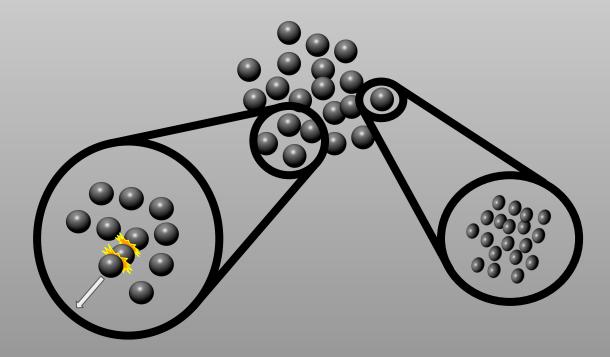


Our Goal



To create an accurate model to study the mass transfer between stars in a contact binary system.

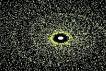
Our approach





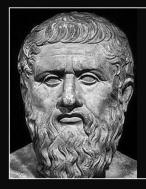






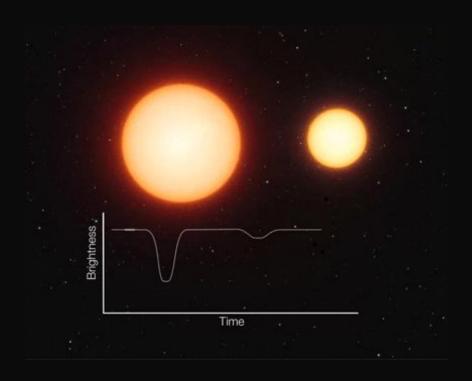
Goals and Future Work

- Develop for more powerful hardware to increase floating point and model precision.



Astronomy compels the soul to look upwards and leads us from this world to another.

— Plato —





Thank you for your time!



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