DM in Astrophysical Objects II:

As for the last exercise, you may draw on existing literature, but are encouraged to propose creative or underexplored ideas. Be as quantitative as possible, try to make order-of-magnitude correct estimates.

Dark Matter Effects on Astrophysical Objects:

Brainstorm:

- List a dark matter model you'd like to explore. Some common models include dark matter particles with a spin independent or spin dependent "contact" cross-section, dark matter particles with a long-range force with nucleons or electrons, large composite dark matter with a uniform, large cross-section for standard model material, and primordial black holes.

Dark matter model:		
Dark matter energy loss in a single object crossing (could also gain energy, depending on object and DM model):		
Thermalization if applicable:		
Other / eventual effects on the object:		

If you finish thinking about a few models early in this session, begin trying to set a bound or projected dark matter sensitivity using your object on the back of this paper.