

# Week Four Update

Lane Scheel and Dr. Hang Yu

Gravitational Wave Modeling of the Galactic White Dwarf Confusion Noise

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- Understand strain and how to calculate it.  

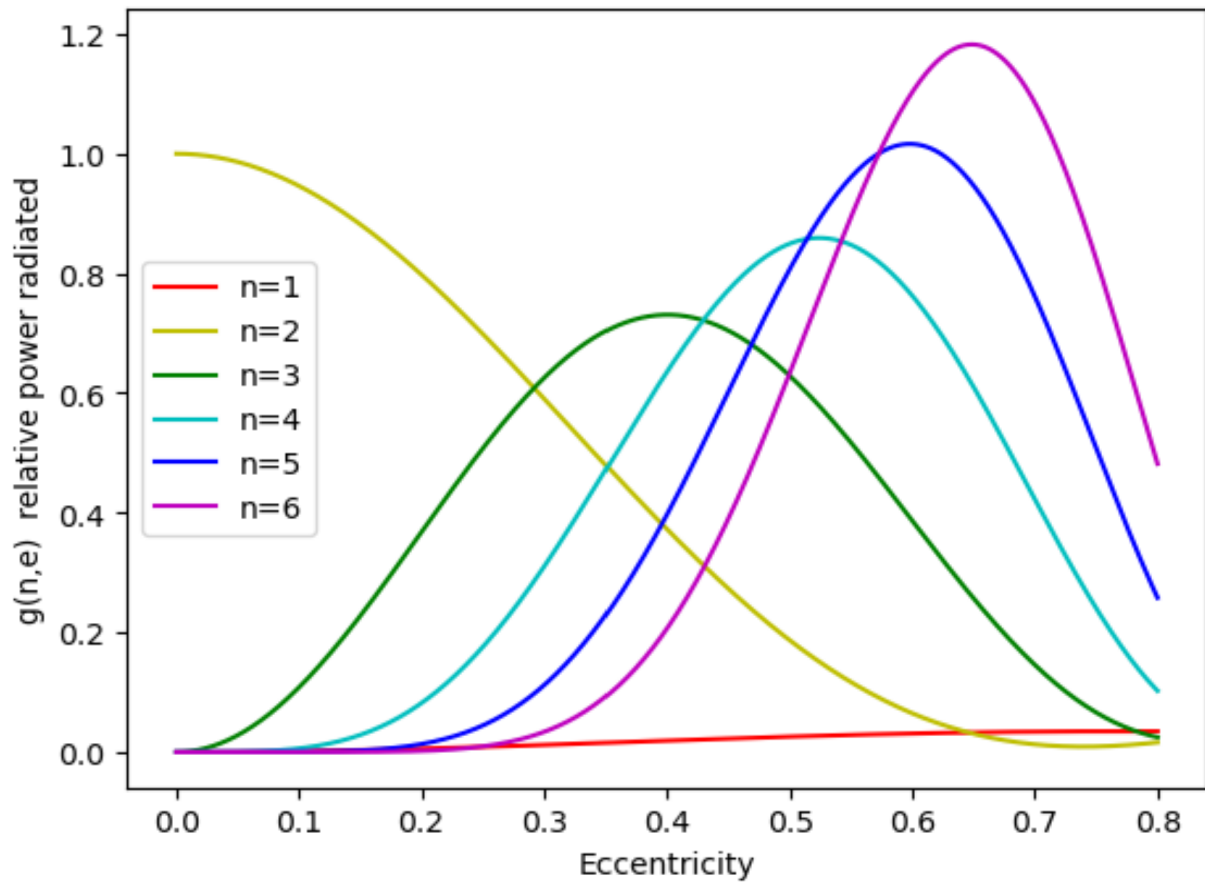
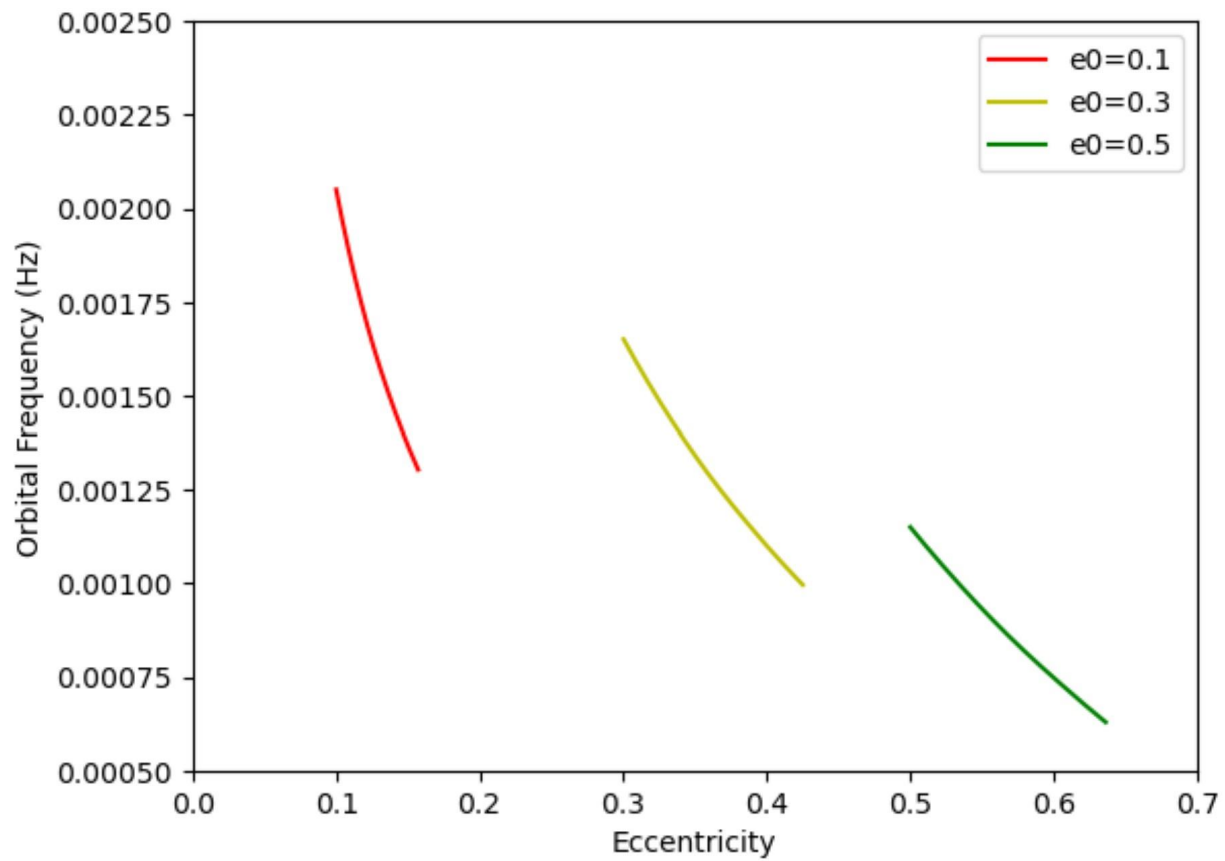
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- Reproduce plots from previous publications.  

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- Write codes to reproduce aforementioned plots.  

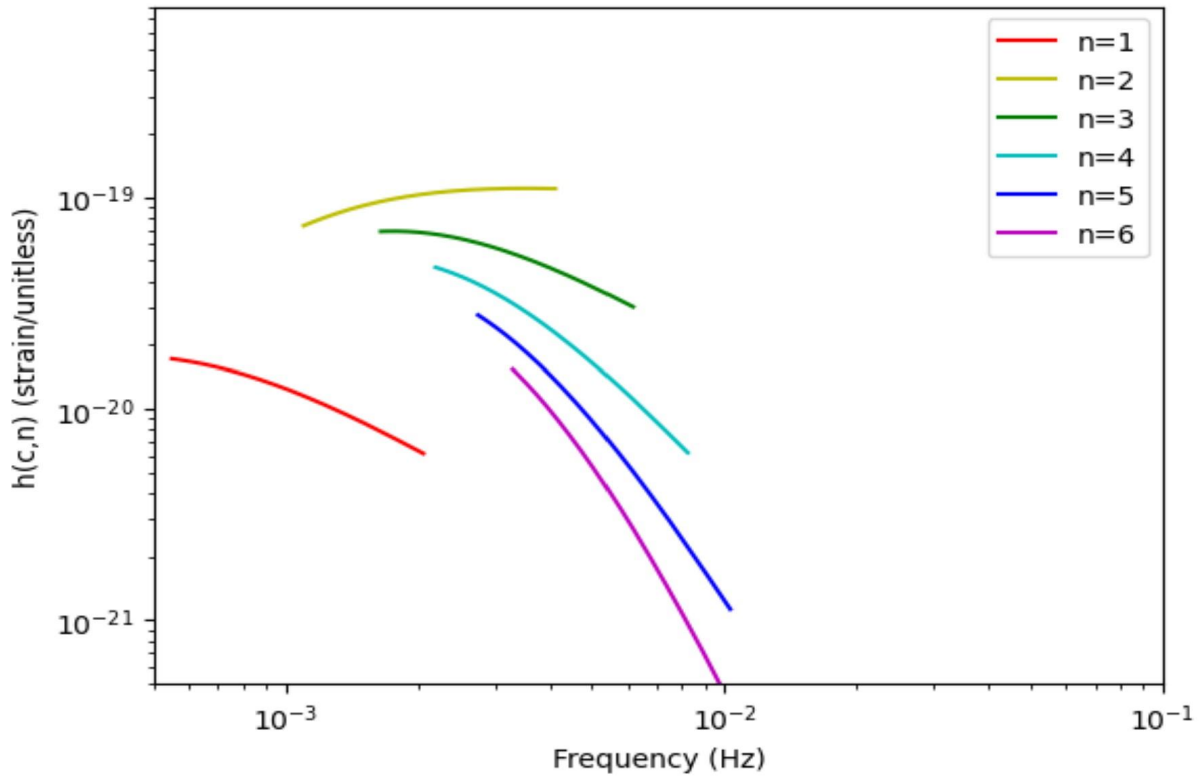
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- Demonstrate some understanding with those.  

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- Determine what systems within the parameter space we will be able to detect.  

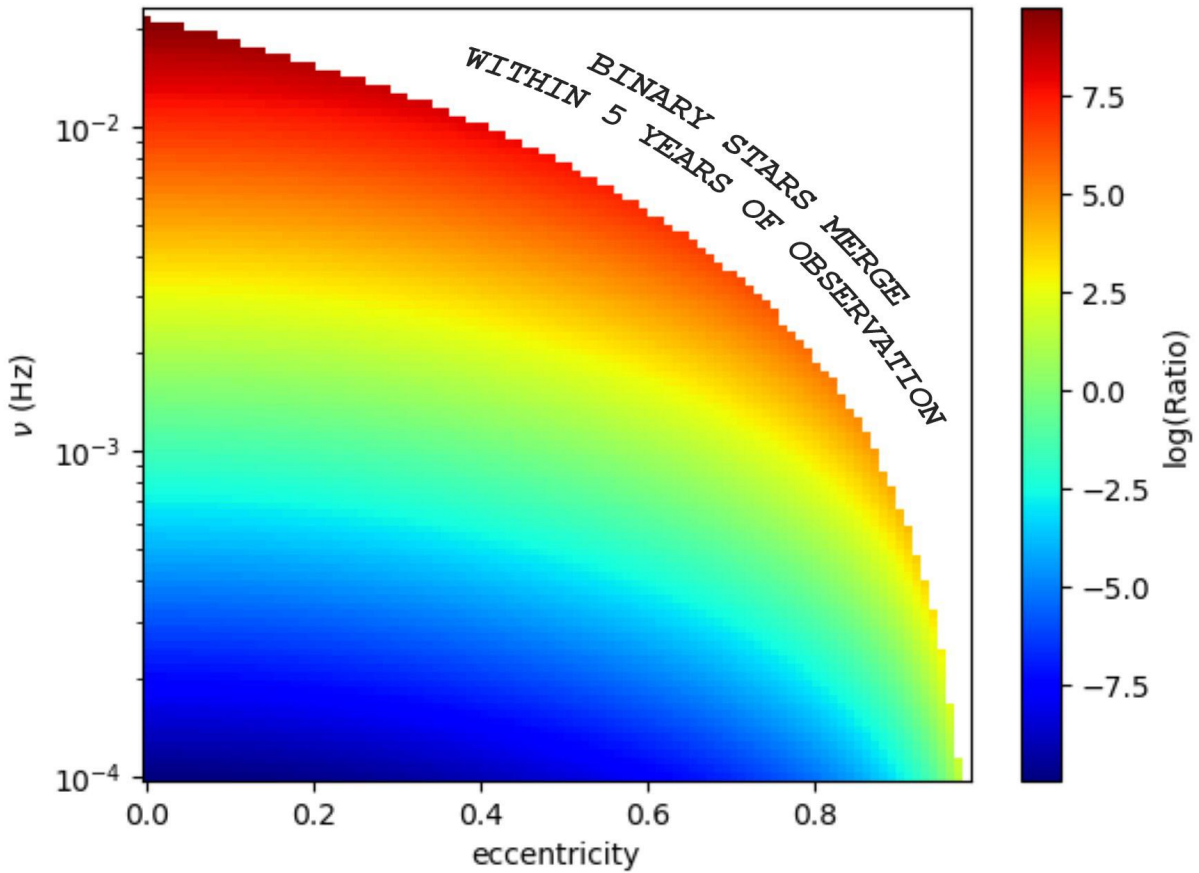
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- Fun Yellowstone Pics



MBH and CO Strain on Detector by Harmonic



Ratio over 5 years ( $\Delta\nu$  / frequency resolution)



Barack and Cutler Reproduction  
Assuming Only Circular Binary Orbits

