

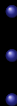
# Turbulently-Driven Detonation Initiation in Electron-Degenerate Matter with Helium

Gabriel Casabona

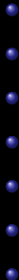
Dept. of Physics, UMass Dartmouth

Physics Day  
February 20, 2020

# Type Ia Supernovae



# Stellar Lifetime



## Degeneracy Pressure



# Zel'Dovich Gradient Mechanism

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## Kolmogorov's Theory



## "Previous Work"

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# Helium Detonation

- Talk about double detonation, maybe D6
- use vishal's video



# Triple Alpha

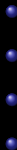


# Method

# Results

detonation times

slice plots



# Results

helium analytic curves



# Results

movies



PDFs

# Implications

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# Future Work

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