

Junqi Zhang

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Education

University of Wisconsin - Madison	Madison, WI
<i>PhD in Physics</i>	<i>Started Aug. 2025</i>
University of Wisconsin - Madison	Madison, WI
<i>BS in Physics and Philosophy</i>	<i>Jan. 2023 – May. 2025</i>

Research Interest

Early universe cosmology, particularly inflationary physics, reheating and associated observables.

Research Experience

Inflationary Cosmology	Madison, WI
<i>Advisor: Prof. Daniel Chung</i>	<i>Mar 2024 – Sep 2024</i>
<ul style="list-style-type: none">• Cosmological Perturbation: Reproduced the basic results of the linear order cosmological perturbation with multiple scalar fields under uniform curvature gauge.	
<ul style="list-style-type: none">• Isocurvature Perturbation: Investigated double monodromy inflation model and embedded the monodromy axion model into the isocurvature perturbation with realistic parameters as the dominant inflaton with a superheavy dark matter spectator. Computed spectator perturbation spectrum in the superhorizon region.	

Teaching Experience

TA for Physics 207: General Physics I (Fall. 2025)

Skills

Languages: Mathematica, Julia, Python