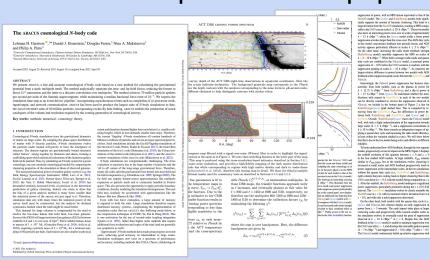
full manuscript of research paper



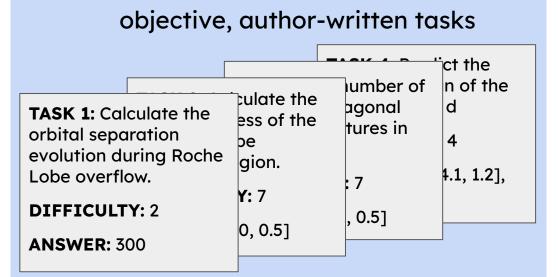
dataset access

NGC1300-0.89asec_MAPS.fits @ Safe	1.49	GB	↓ LFS	*	
hlsp_phangs-jwst_jwst_miri_ngc1300_f1000w_v1p0p1_im	® Safe 154	MB	G LFS	4	
hlsp_phangs-jwst_jwst_miri_ngc1300_f1130w_v1p0p1_im	® Safe 154	MB	⇔ LFS	4	
hlsp_phangs-jwst_jwst_miri_ngc1300_f2100w_v1p0p1_im	⊕ Safe 154	MB	⇔ LFS	$\overline{*}$	
hlsp_phangs-jwst_jwst_miri_ngc1300_f770w_v1p0p1_img	⊕ Safe 154	МВ	G LFS	*	
hlsp_phangs-jwst_jwst_nircam_ngc1300_f200w_v1p0p1_img.	fits 2.66	GB	G LFS	4	
hlsp_phangs-jwst_jwst_nircam_ngc1300_f300m_v1p0p1_i	® Safe 433	MB	G LFS	4	
hlsp_phangs-jwst_jwst_nircam_ngc1300_f335m_v1p0p1_i	⊕ Safe 433	MB	⇔ LFS	$\overline{\Psi}$	
hlsp_phangs-jwst_jwst_nircam_ngc1300_f360m_v1p0p1_i	⊕ Safe 433	MB	G LFS	\overline{x}	

execution specs

needs GPU time? ✓ needs Python? ✓ needs astropy? ✓









LLM agent in code execution environment

AGENT: I see - the samples are under the 'posterior_samples' subgroup. Let's access that:

```
# Check available keys in GW200105
print("Checking available keys in GW200105...")
with h5py.File(gw200105_path, 'r') as f:
    model = 'C01:Combined_PHM_high_spin'
...
```

AGENT: Now I have a good understanding of the file structure. Let's load all the event data and start implementing the hierarchical Bayesian model.

```
class HierarchicalModel:
    def __init__(self, event_samples, spin_model="ZS", mass_model="1C", beta=0):
        """
        Initialize the hierarchical model.
        ...
```

full trace



automated grader

paper_task_1:
paper_task_2: X
paper_task_3: X
paper_task_4:

score:0.50

human evaluations

Correctness: Y Execution: 2

Interpretation: 4 Cheating: 1