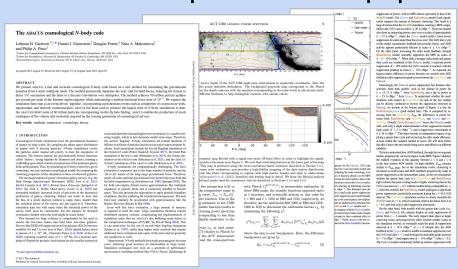
full manuscript of research paper



dataset access

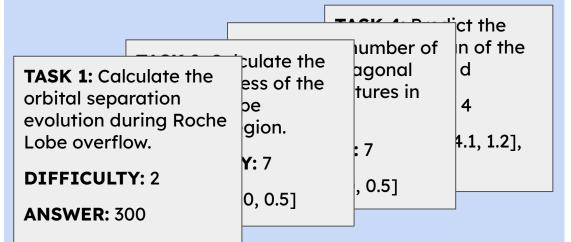
| IGC1300-0.89asec_MAPS.fits | 1.42 | GB | | Ł |
|--|------------|----|--------------|----------|
| llsp_phangs-jwst_jwst_miri_ngc1300_f1000w_v1p0p1_im | Safe 154 | МВ | ∅ LFS | * |
| lsp_phangs-jwst_jwst_miri_ngc1300_f1130w_v1p0p1_im | Safe 154 | МВ | | ± |
| lsp_phangs-jwst_jwst_miri_ngc1300_f2100w_v1p0p1_im | 8 Safe 154 | МВ | | <u>*</u> |
| lsp_phangs-jwst_jwst_miri_ngc1300_f770w_v1p0p1_img | 8 Safe 154 | МВ | | ₹ |
| lsp_phangs-jwst_jwst_nircam_ngc1300_f200w_v1p0p1_img.fit | s 2.66 | GB | ♦ LFS | * |
| lsp_phangs-jwst_jwst_nircam_ngc1300_f300m_v1p0p1_i | 9 Safe 433 | МВ | ← LFS | ± |
| lsp_phangs-jwst_jwst_nircam_ngc1300_f335m_v1p0p1_i | 8 Safe 433 | МВ | LFS | * |
| lsp_phangs-jwst_jwst_nircam_ngc1300_f360m_v1p0p1_i | 8 Safe 433 | МВ | | 4 |
| | | | | |

execution specs

needs GPU time? needs Python? needs astropy? <



objective, author-written tasks







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: <a>

score:0.50



qualitative analysis

Instruction Interpretation?



