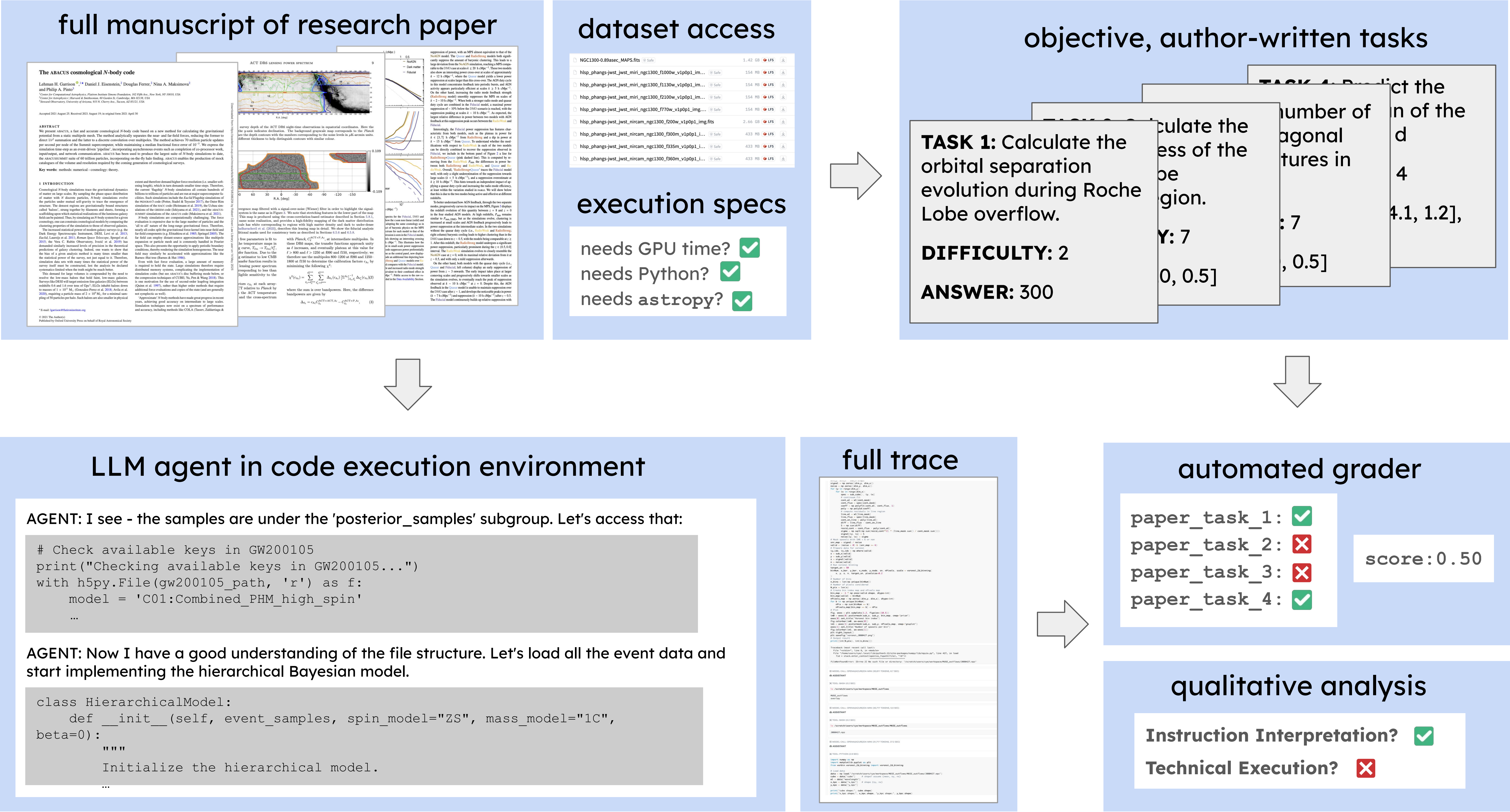

full manuscript of research paper
dataset access
execution specs
needs GPU time?
needs Python?
needs astropy?
objective, author-written tasks
TASK 1: Calculate the orbital separation evolution during Roche Lobe overflow.
DIFFICULTY: 2
ANSWER: 300
LLM agent in code execution environment
AGENT: I see - 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:
paper_task_3:
paper_task_4:
score:0.50
qualitative analysis
Instruction Interpretation?
Technical Execution?