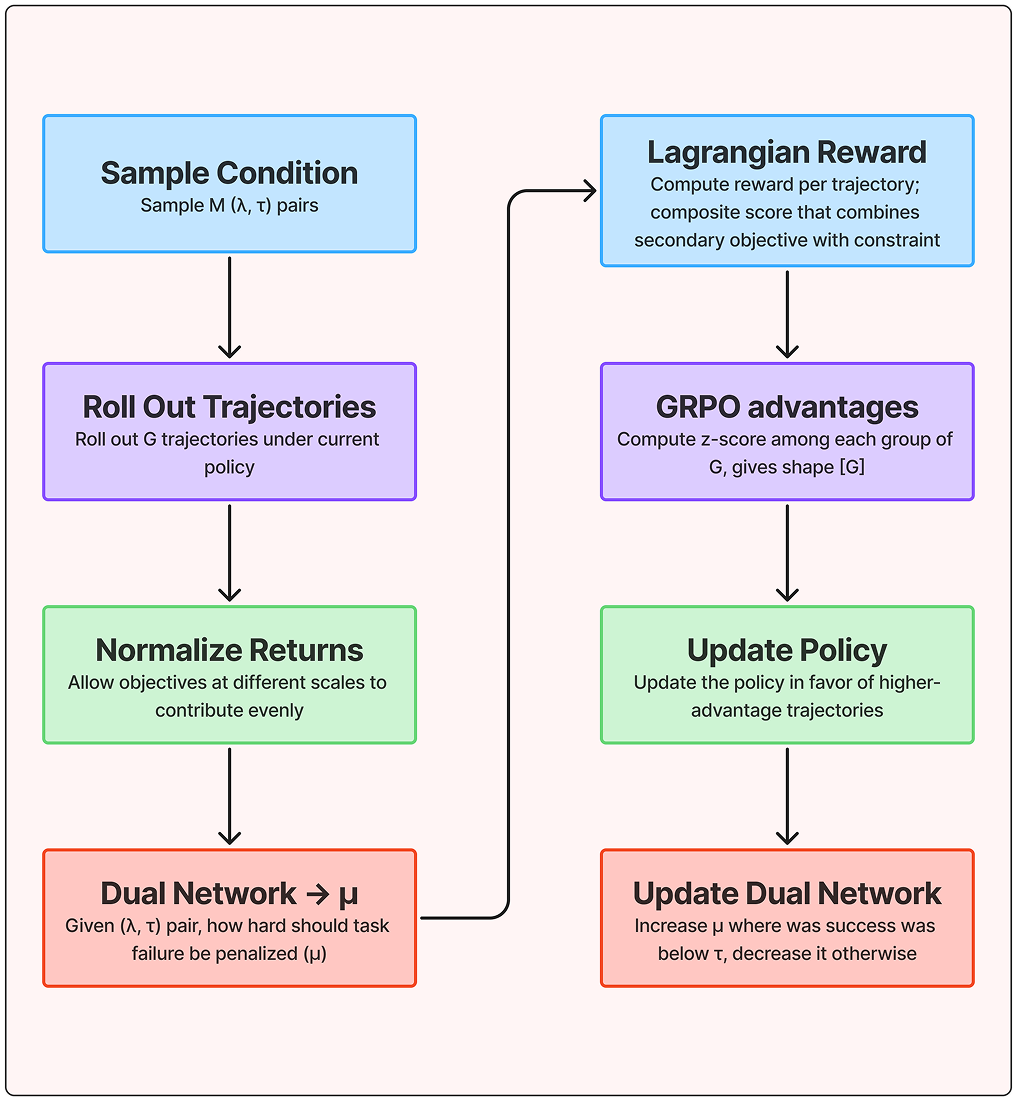
WEEK 8 UPDATE

CODY HILL • 7/13/26
DR. YUE WANG & ZAIN FARHAT



Problem Overview



Task

- GRPO with task-success floor
- Optimized secondary objectives
- Policy π with maximum returns

Progress: SFT Improvement

- Use wrist image
- More max steps
- Goal 54% → 75%
- Long 2% → 40%

My Results

Suite	Avg. Success
Spatial	72% **(↑ 8%)**
Object	70% **(↑ 2%)**
Goal	75% **(↑ 21%)**
Long	40% **(↑ 38%)**

Progress: LIBERO Long Rollouts



Base Run

No wrist image and default steps



Improved Run

Wrist image and 900 max steps

Progress: LIBERO Goal Rollouts



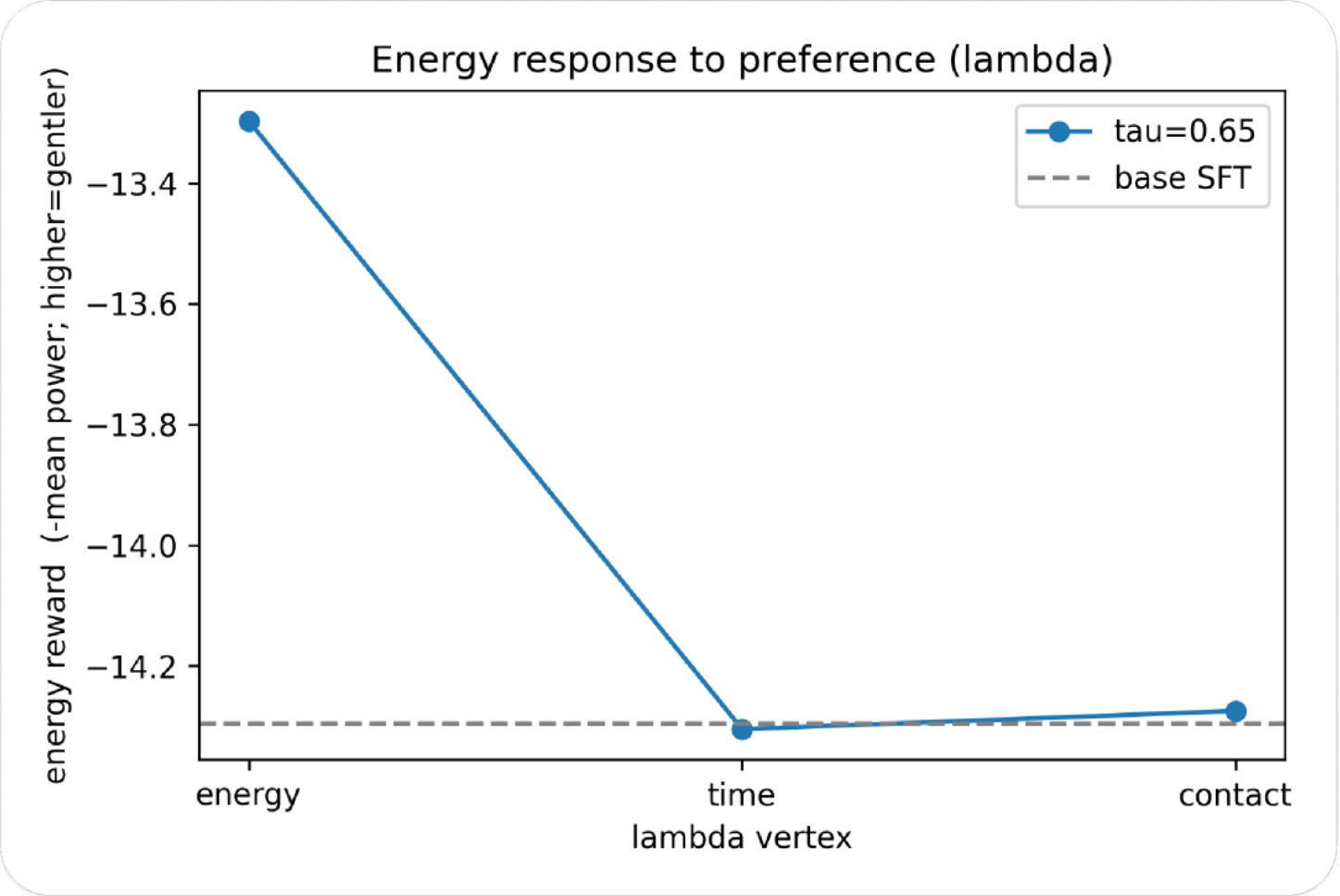
Base Run
No wrist image



Improved Run
Wrist image

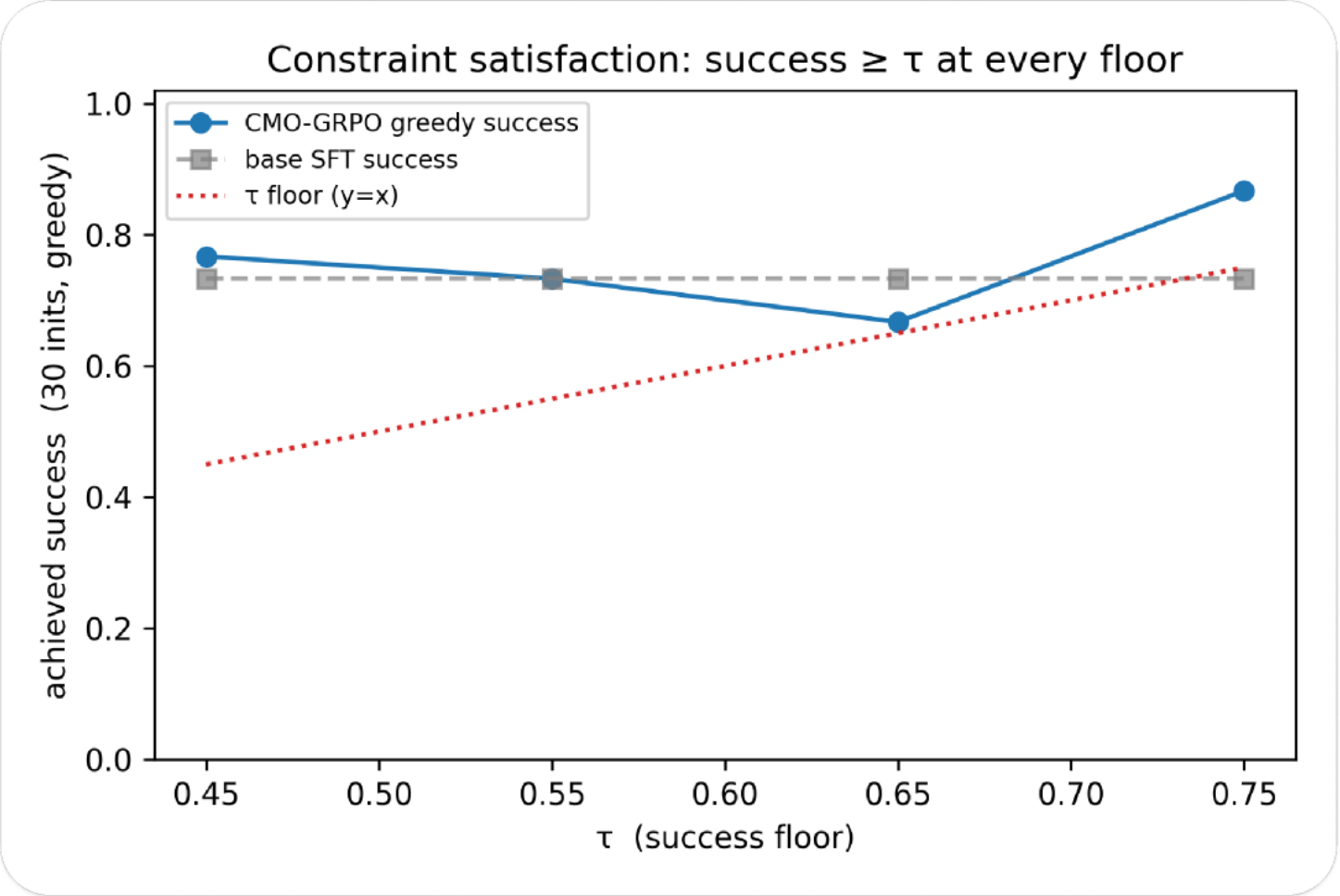
Progress: Response to λ

- λ = (1, 0, 0)
- Energy increases
- Expected result

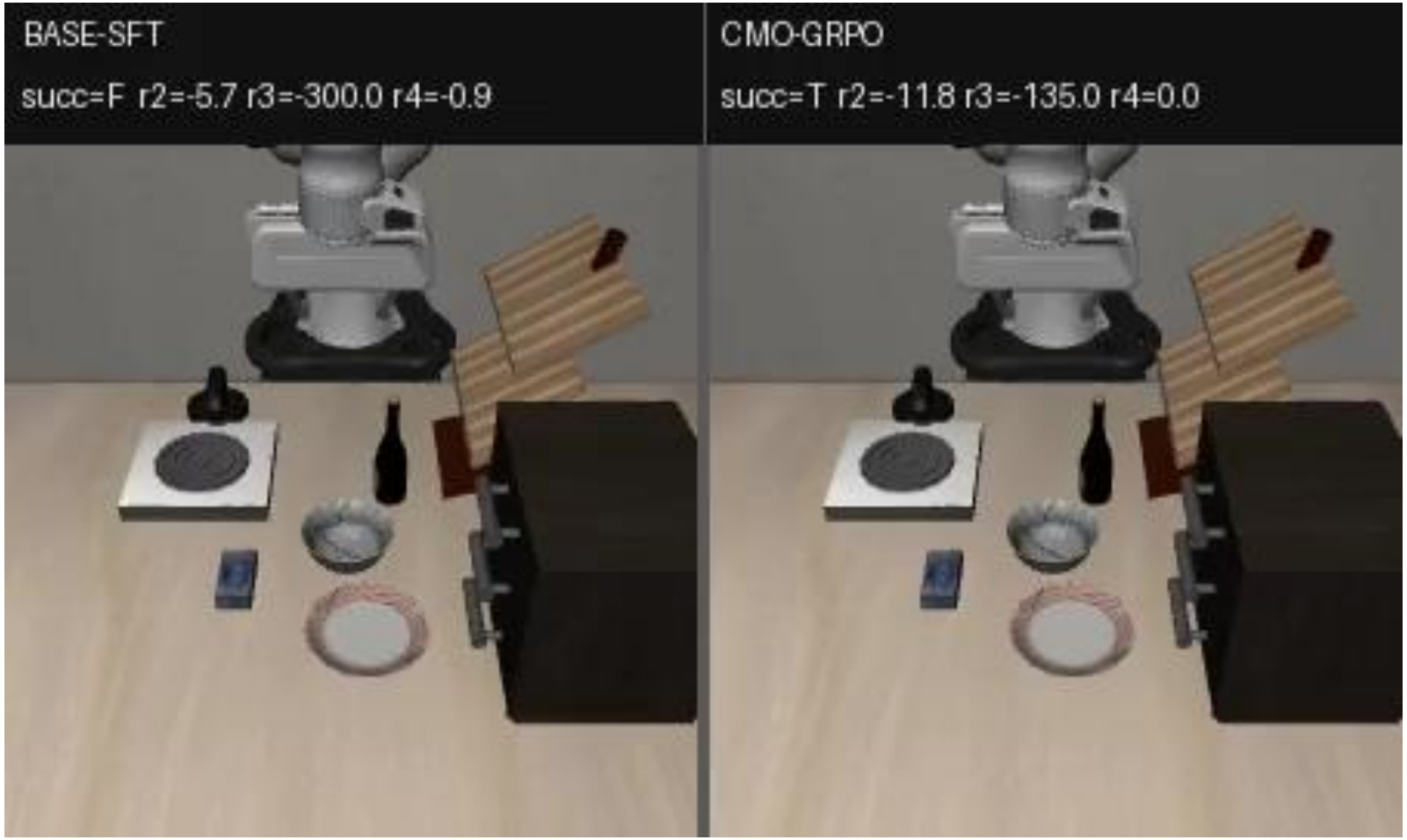


Progress: Constraint Respected

- Stays above floor
- ↑ @ 0.75
- Ideal results



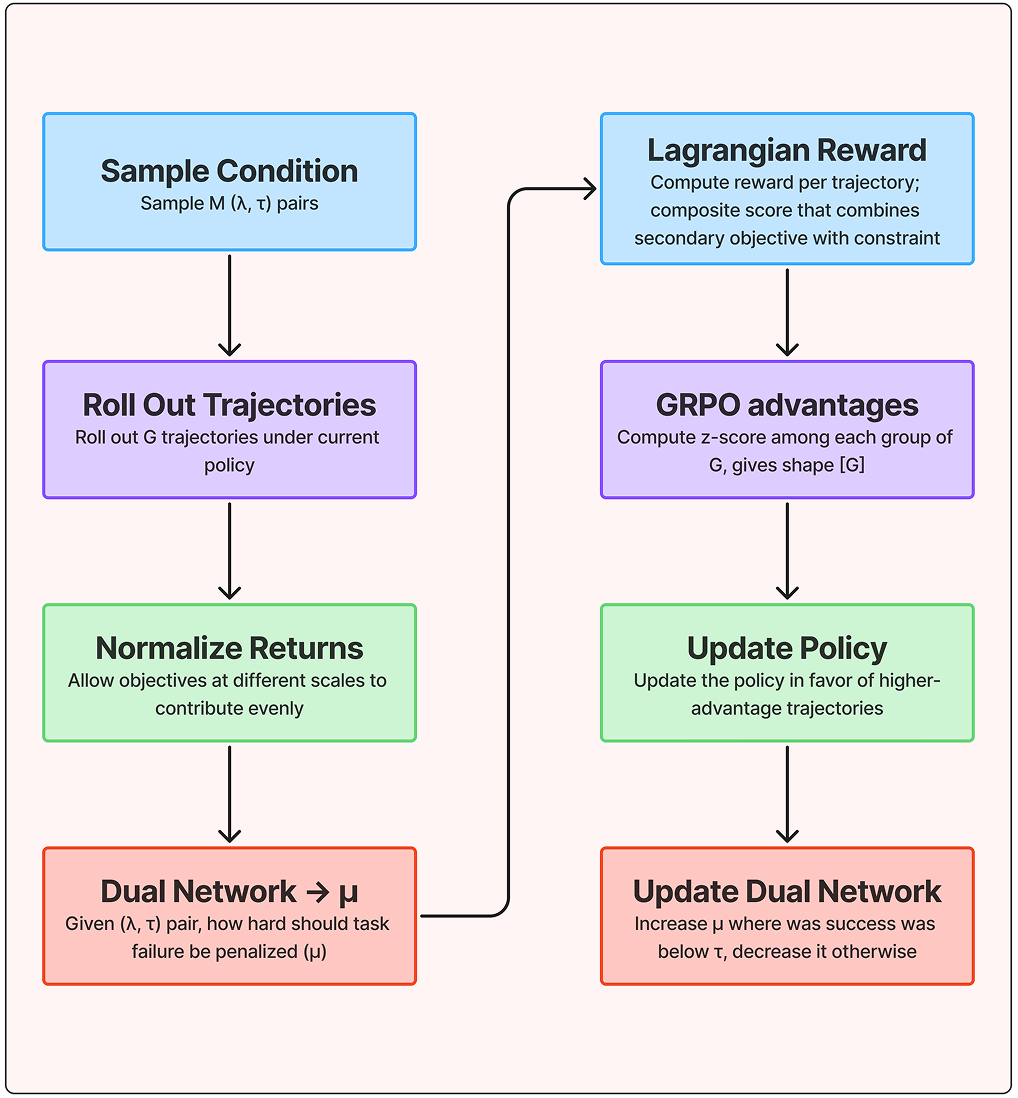
Progress: Energy ←> Success Rollouts



Next Steps

Next Steps

- Secondary objectives
- Sweep tau and lambda
- Headline result



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