The inner workings of LBL and APERO

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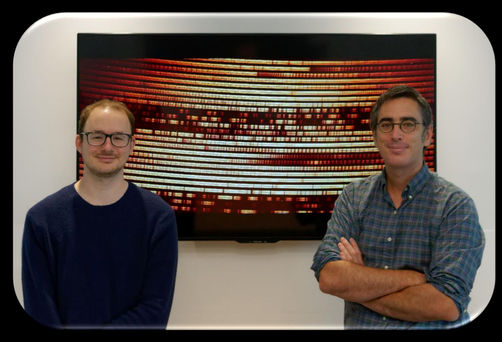

APERO
A PipelinE to Reduce Observations

1. Pre-processing

2. Calibration

3. Extraction

4. Hot star telluric steps

5. Telluric Correction

Create template

HARPS
ESPRESSO
CARMENES
HARPS-N
…

Easy to add new instruments to LBL

Allows RVs at sub m/s level in the NIR

SPiRou
0.965-2.494 µm
R~70000

NIRPS
LOOKING FOR BLUE PLANETS AROUND RED STARS
0.965-1.948 µm
R~85000

LBL

1. Telluric correction

2. Create template

3. Create mask

4. Compute velocity on individual lines

5. Compile individual measurements into final RV

Produces rdb files compatible with DACE

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