AuxTel

What the frogs can do

Quick AuxTEL update: (As far as I know)

Mount being commissioned

Spectrograph shall be shipped this summer

No Project funding nor plans for commissioning



Room for Frogs: plan and participate to AuxTEL commissioning DESC/PCWG way: ANALYSIS LEAD

AuxTEL: an ecosystem in which to interact



AuxTel bonding effect I: detector characterization

SWAG/PCWG/Project working together

Data taking/sharing is happening:

Full LSST-operation code still in dev Changing the detector still in discussion

Working plan: Project sets the timeline PTC/CTE measurements being measured SWAG 4th dan



motifake.con



Room for Frogs: learn to look at the data with DM And commissioning dataset

AuxTel bonding effect II: Spectrograph characterization

Forward modeling approach

General agreement on the extraction method DESC/Project interface sharing for code dev. First datasets have been taken



"I FIND YOUR LACK OF FAITH DISTURBING"

Many on-sky tests/characterization:

Will need to plan those tests And the data-taking But later down the road

Room for Frogs: propose a commissioning dataset AND observe it

AuxTel bonding effect III: Atmosphere analysis

Ancillary data & *Tran assessment:

MERRA2/GPS on fine grain scale SNfactory measurements vs prediction

From spectra to Atmospheric transmission: GEMINI/CTIO data analysys in progress A large group of fine people

Additional site instrumentation: DIMM: turbulence monitoring



Teamwork is the ability to work as a group toward a common vision, even if said vision becomes extremely blurry.

More Ocotas #- IMGOubtes.com



Room for frogs: commissioning dataset for demonstration

AuxTel bonding effect IV: Photometric calibration

FGCM approach very robust: Currently dominating features are in Gaia



TEAMWORK DON'T KNOW WHAT'S GOING ON? KEEP CALM, NOBODY ELSE KNOWS WHAT THEY'RE DOING EITHER.

CBP Proof of concept:

Plan towards Proof of Concept with StarDICE

AuxTel observation strategy:

Project responsibility Sensible approach with DESC

Room for frogs: commissioning dataset

Emergence of a specific Task: Closing the Photometric loop

Putting all the pieces together for the first time:

Flux standards

Atmosphere

Instrument caracterisation

Spectroscopic and photometric data observations

Demonstrating accuracy & precision of the photometric data calibration

The pieces:

CBP instrument caracterization:

Merlin LPNHE + ?

Deliverable: demonstration of instrument Flat Fielding

AuxTel obs:

DM LAL + ?**Deliverable:** Running operations

AuxTel data processing:

Merlin LAL + ?**Deliverable**: photometric and spectroscopic data



Atmosphere:

J.Neveu / Y. Copin Stardice

Deliverable:

- Data collection
- Atmospheric model
- Validation on data

Putting it all together:

E.Ryckoff Stardice +

Deliverable:

- Forward Modeling
- Validation on data

<u>Putting it together</u>

DESC/Project interaction person:

Seb "Ze Frog"



Meeting in person: Next workshop 10-13th of July



An AuxTEL commissioning dataset proposition

To calibrate/caracterize the spectrograph

To demonstrate mean atmospheric measurement ability

To probe new atmospheric variability

An AuxTEL commissioning participation

Who goes for how long ? Desire to participate to Real Life commissioning ?

