

ING ALL-STAFF VIRTUAL MEETING

1 April 2020



Connecting to this meeting

- From your device connected to internet: click
 - <https://ukri.zoom.us/j/3822096947>

- From a telephone (audio only):
 - CALL toll-free 900 053 647
 - OR 800 654 404
 - AND enter meeting ID 382 209 6947#



Meeting plan

1. Marc: Intro
 2. Chris: Students; Astro.
 3. Don: Computing
 4. Diego: T&I
 5. Juanjo: Admin
 6. Juerg: Ops
 7. Don: WEAVE
 8. Marc: wrap up
 9. All: Q&A
- All: mics, video OFF
 - Speakers: when it's your turn, TURN AUDIO, VIDEO ON. Turn OFF when done.
 - Q&A: write into Chat, during presentations.
 - Q&A: Javier will organise written questions into blocks, for MG to answer.
 - Q&A: verbal questions at end. Switch mic ON to talk. OFF when done.

Overview

We have responded well to this most profound alteration to normal living conditions since WW2.

- Thanks for all the positive attitudes

Goal – find way to use time effectively

Focus – being ready for when we go back to normal

Hard times – communication essential

- Safety network – no one gets isolated

Hard times – let's work together and we will prevail





Where we are

- Responding to rapidly-changing situation
- Safety first! staff and families
- Closed observatory
 - ORM: Monday March 30th (all telescopes; Residencia)
 - ING: Monday March 16th
 - Close LN2 production, maintain computing infrastructure on
 - Visits 1-2 per week as needed
- Closed ING SLO
 - As of Monday March 30th





Where we are – working from home

- Coronavirus Coordination Team
 - Cecilia, Chris, Diego, Don, Juanjo, Juerg, Marc, Neil
- Laptops, VPN, zoom to almost everyone (Thanks, IT Group!)
- Page in Confluence with Updates
 - Too much info!? Making access easier.
- Guidelines for working from home
 - Getting organised, at Group level: good.
 - Some individuals have little opportunities for work from home



Where we are – information/contact points

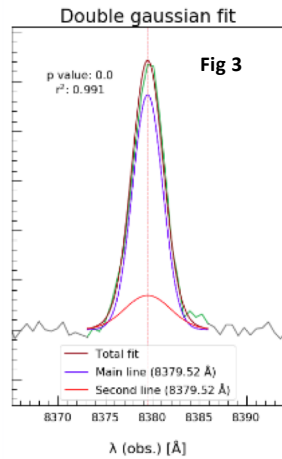
- Group meetings
 - Zoom, telephone/WhatsApp with colleagues, Group Heads, Reps
- ING staff meetings
 - Every one or two weeks, zoom
- Training events
- Student-organised Friday seminars
- STFC, UKRI
 - Weekly staff webinars
 - In.Brief, InfoHub
 - <https://staff.stfc.ac.uk/she/Coronavirus>
 - <https://infohub.ukri.org/keep-up-to-date/coronavirus-information/>
- ING Confluence intranet
 - <https://titania.ing.iac.es:8444/display/ING/Coronavirus+updates>
 - News; Forum.



Students - Chris

Macarena work

PhD - Analysing star-forming regions

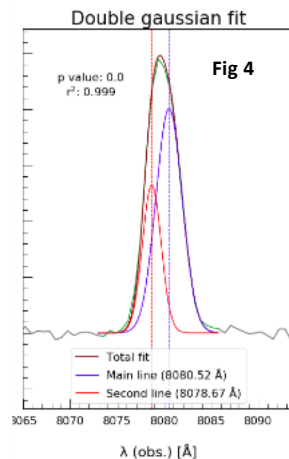
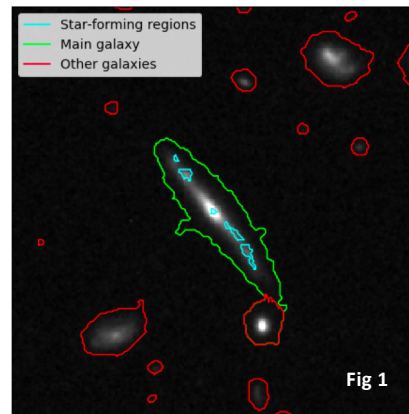


Spectroscopy

Double gaussian fitting to H-alpha emission lines.

Candidates for a future analysis of their feedback regime [Fig 3]

Candidates for calculating spectral characteristic of two resolved star-forming regions [Fig 4]

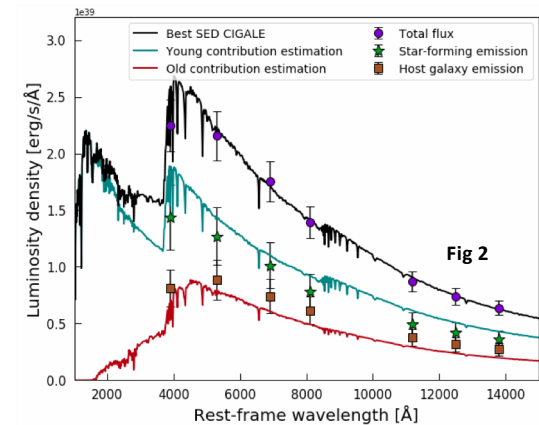


Photometry

Disjoin the different emissions (clumps and host) coming from star-forming galaxies [Fig. 1]

SED fitting using CIGALE code applied to the total emission of the galaxy.

Comparison between the clump emission and the estimated young SED contribution (green). Same with the old contribution (red) and the host emission [Fig. 2]



Fiber # 43

$m_r = 13.703$

offset = 0.462 arcsec

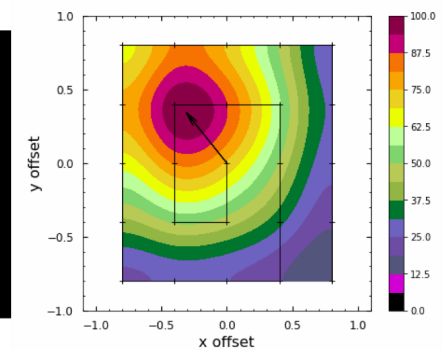
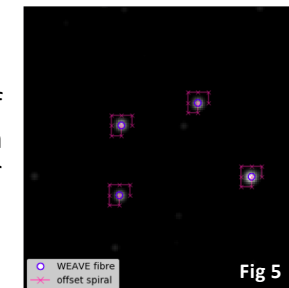
Fig 6

WEAVE (commissioning tool)

Simulated star field with different seeing values

Measured flux around spiral offsets for different fibers starting at different points [Fig. 5]

Determine the actual position of the stars and the total offset from the original position of the fiber [Fig. 6]





Viki Pinter



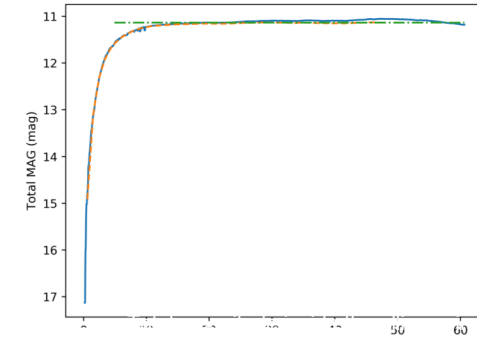
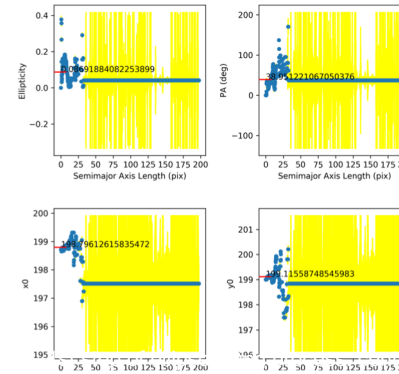
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Python script results

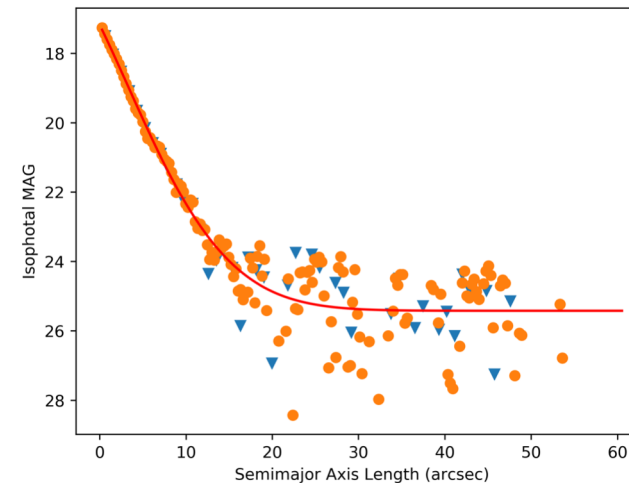
PHD- Python script

- Simplifying the isophotal analysis method- automatizing the IRAF 4-step method for fitting ellipses on galaxies images
- Analysing the flux values inside the ellipses



THELI data reduction and documentation

- Reducing WHT observational data – observed in January –PhD
- Updating the WHT THELI data reduction documentation- project started with Raine



Nick Amos

PhD (Dynamics of Galaxies in Clusters, $z \sim 1.4$) (Amos et al., in prep):

- Currently working on analysing the dynamics of these galaxies (dynamical axis location/orientation and generating 2D velocity models for these galaxies).
- Plot indicates the method I'm currently investigating (Fig. 1).
- Attempting to determine the most reliable way of detecting V_{max} .

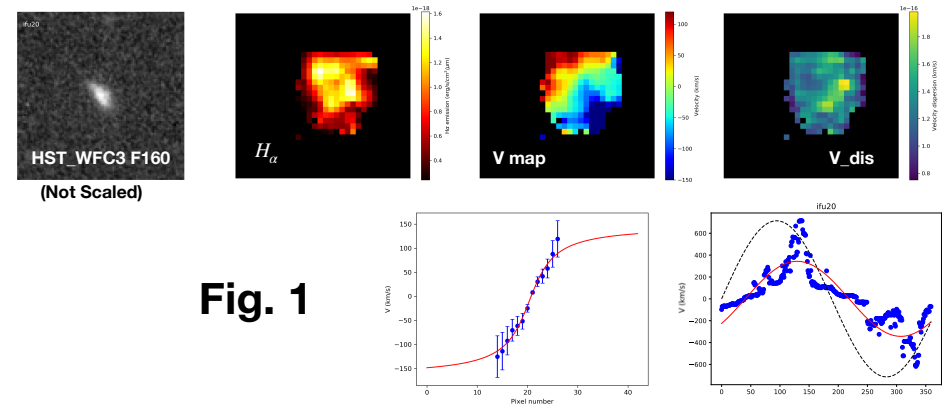


Fig. 1

PhD (Lyman-alpha emission in cluster galaxies with QSOs, $z \sim 3$):

- New investigation using D-night data taken with WFC/INT. (Fig. 2)
- Using the narrowband technique outlined in (Geach et al., 2008) to determine which galaxies could be cluster members based on their Lyman-alpha emission.
- Experimental with uncertain outcome made possible by use of INT D-time (thank you!).

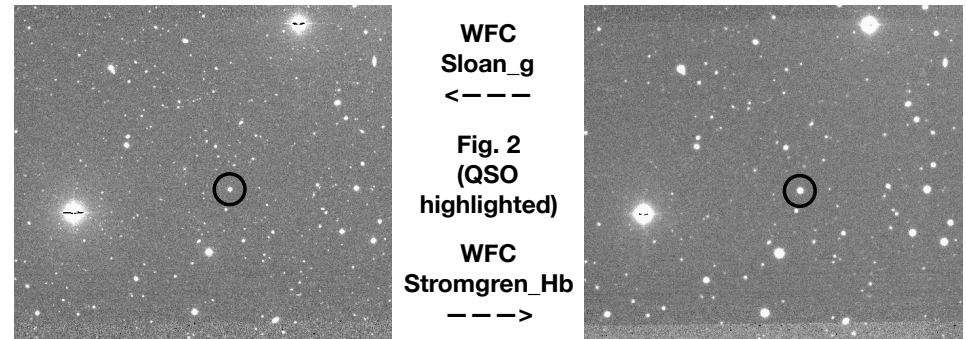


Fig. 2
(QSO highlighted)

WEAVE (Scheduler):

- Weave scheduler simulated runs and analysis.
- Automated runs of scheduler and sequencer.
- Database reset script (hopefully save time at start of new simulated runs, helps if database has been mistakenly modified in large ways).
- Currently analysing and comparing my recent run and OpR3c_extra (Fig. 3).

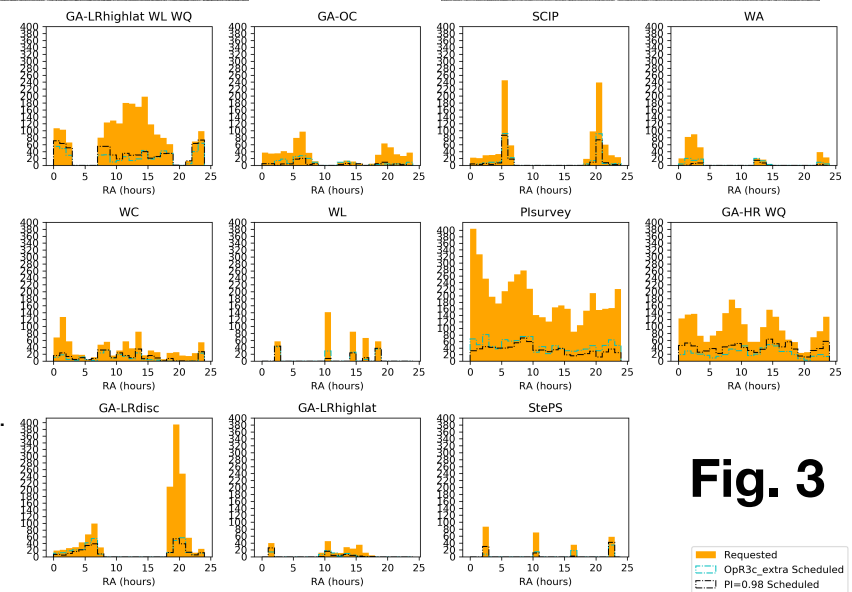


Fig. 3

The origin of the most luminous Planetary Nebulae

Rebeca Galera Rosillo

Context: Brightest PNe: evolve, in theory, from massive progenitor stars with short lifetimes.

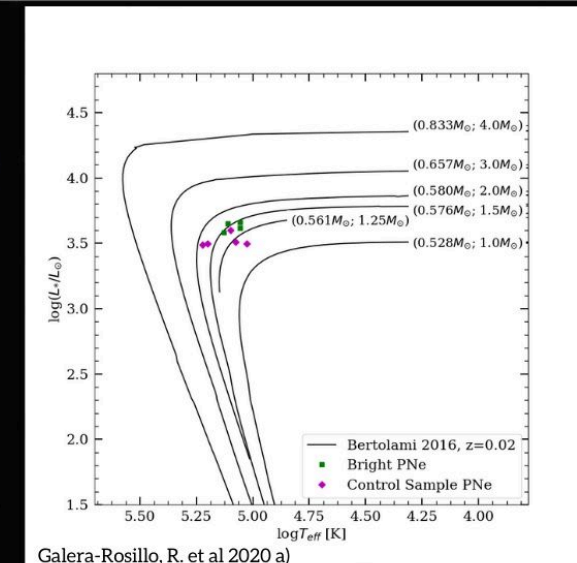
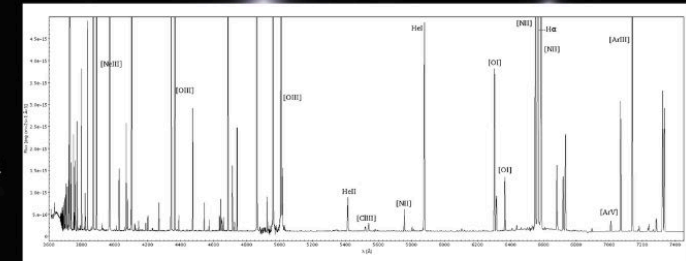
Problem: We shouldn't find them in old systems, e.g. elliptical galaxies of bulges (because they evolve fast). But WE DO!

Aim: Most detailed study of the brightest PNe in systems with different metallicities:
 - 8 PNe in M31 (from Osiris, GTC)
 - 4 PNe in LMC (from FORS2, VLT)

Goal:

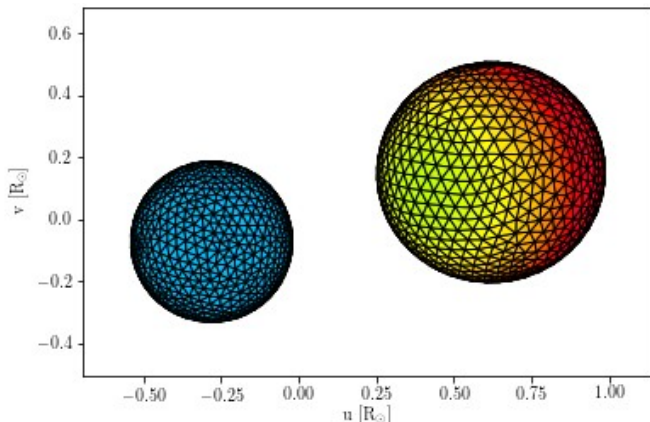
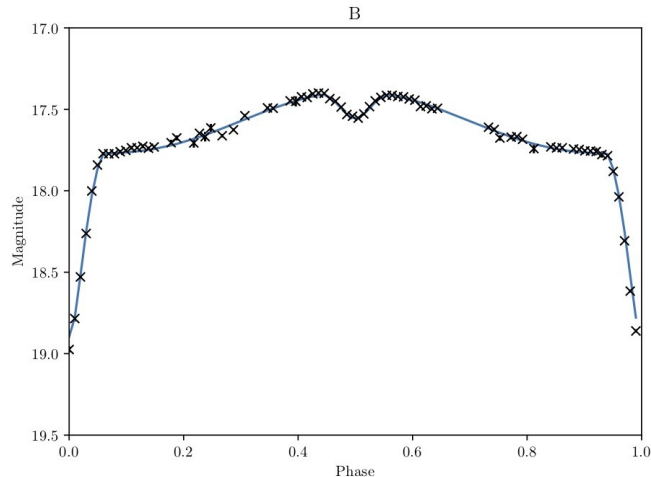
From spectra

Progenitor masses



INT project Are the PNe with a binary Central Star the brightest PNe in the MW?
 Impossible to check before GAIA (unknown distances). Possible now!
 GOAL: Precise photometry of PNe with binary Central Star. Include them in the general context.

Background image: Arp 98 from INT, Rebeca Galera Rosillo



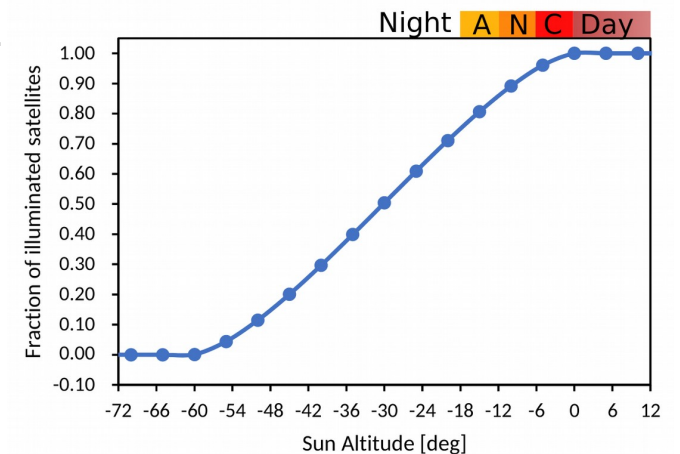
Above: Light curve and temperature map of PNG283

Tom and Jacob: Binary Star modelling

- Modelling binary central stars of planetary nebulae to determine temp, mass, radii, separation, etc...
- Running Monte Carlo chains through the Spanish Supercomputing Network (PNG283)
- Extracting light curves from WFC data and radial velocities from OSIRIS data (NGC6778)

Jacob: Future Satellite Impact

- Investigating the impact of future satellite mega-constellations on WEAVE
- Look into possible mitigation methods



Right: Estimation of the fraction of satellites illuminated by a recent A&A paper



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Astronomy - Chris



Astronomy group

Astronomers: Cecilia, Chris, Ian, Javier, Lilian, Ovidiu, Raine

Optics: Emilie, Neil

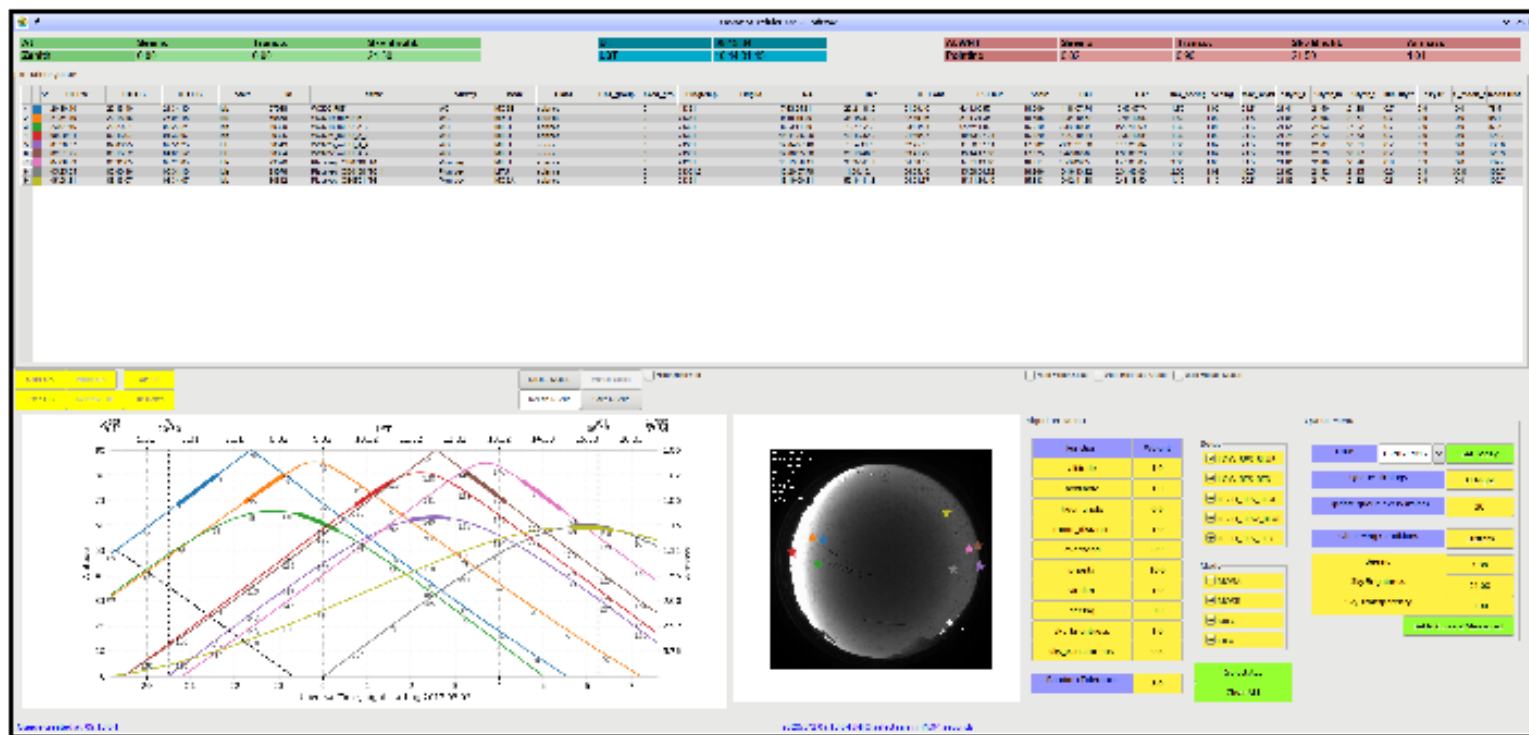
Telescope operators: Fiona, Flori, Lara, Lucia, Norberto

Students: Jake, Macarena, Nick, Rebeca, Thomas, Viki

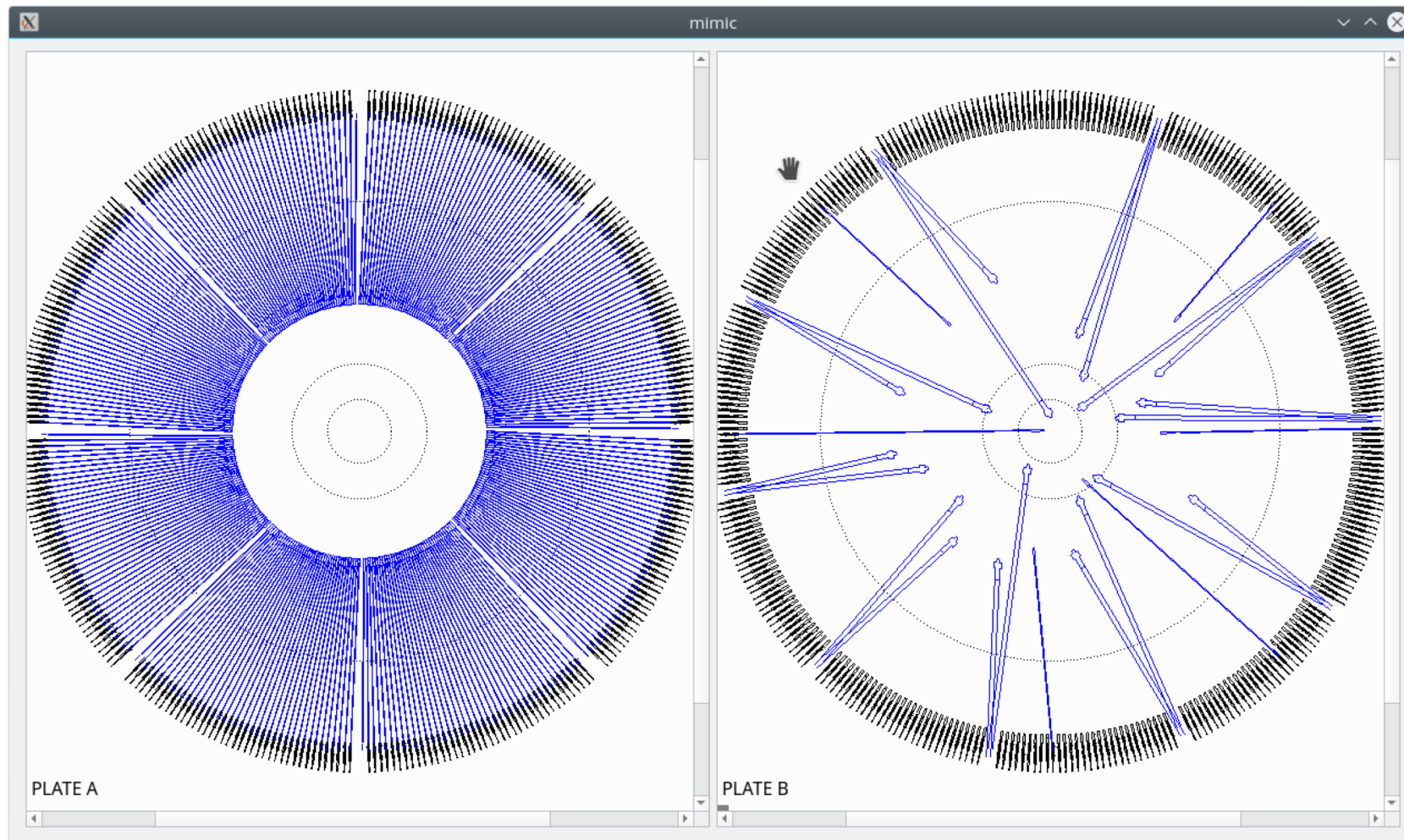
WEAVE scheduler (Cecilia, Lilian etc)

Working in WEAVE

- Writing User Manual for the WEAVE Scheduler
- With Nick Amos keep on testing the Scheduler algorithm (using data from OpR3c)
- Reviewing WEAVE documentation
- Soon resume checking the Scheduler GUI integrated in the OCS



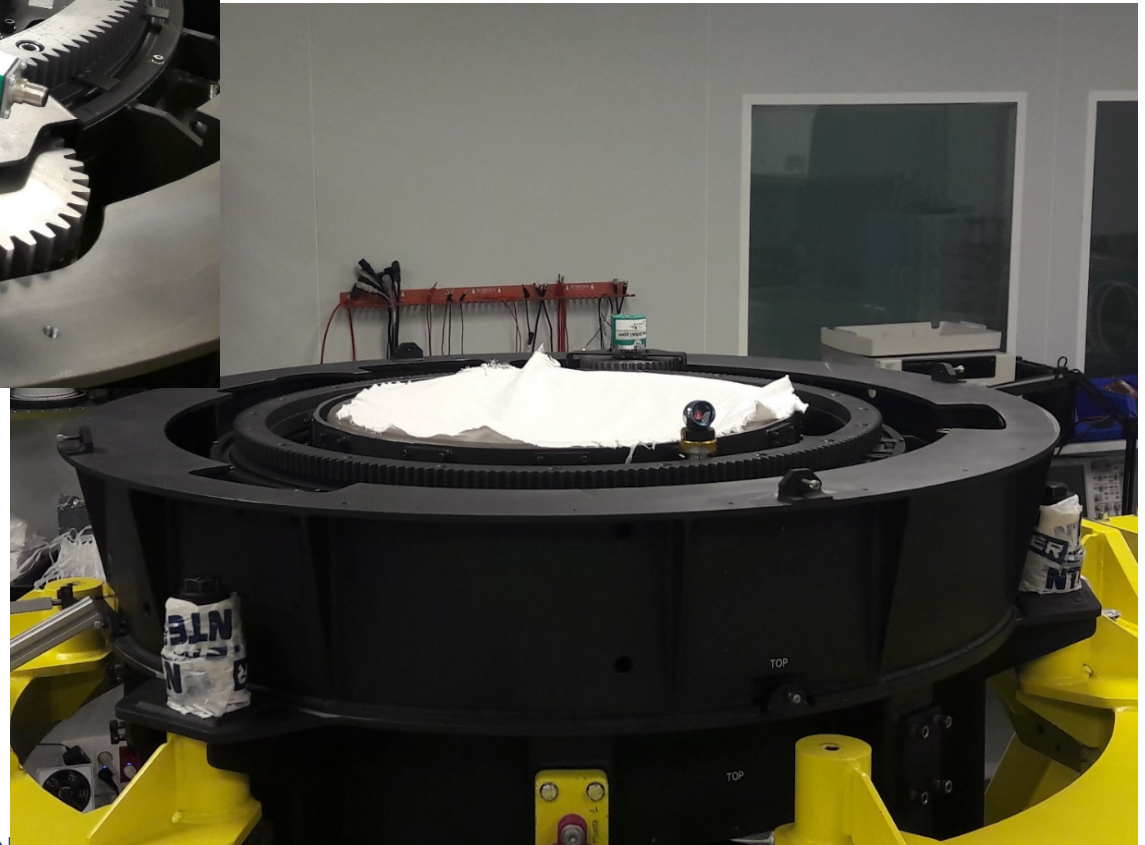
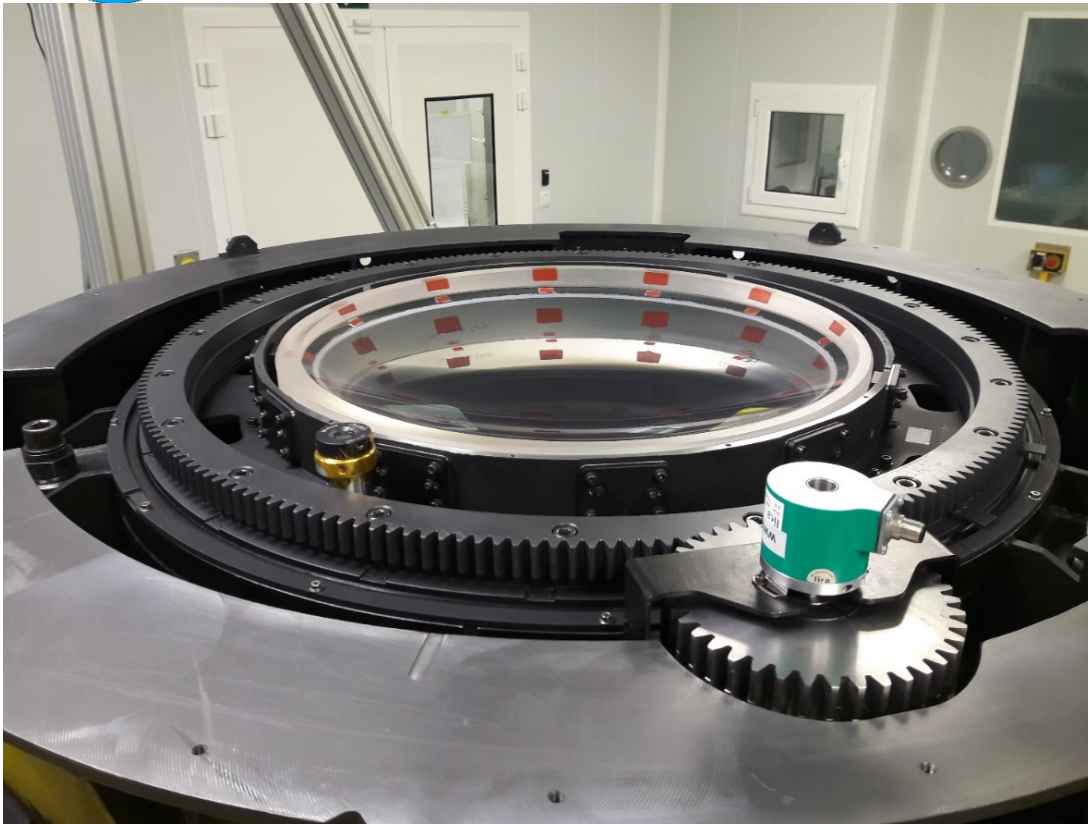
Configuring WEAVE fibres (Lilian, software teams)



WEAVE PF corrector (Emilie, Neil, Lucia, Kevin etc)

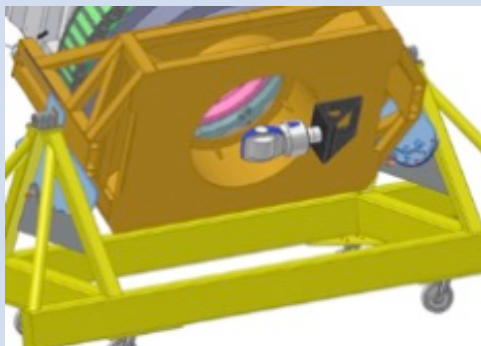
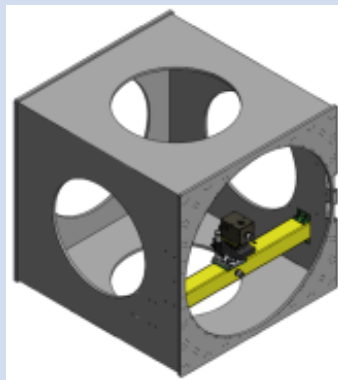
WCS-PFC Assembly and Integration at SENER's premises (Barcelona)
Last week: mechanical alignment with Laser Tracker



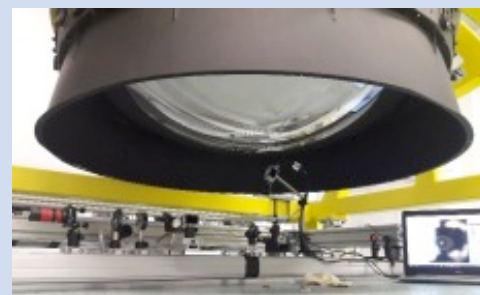
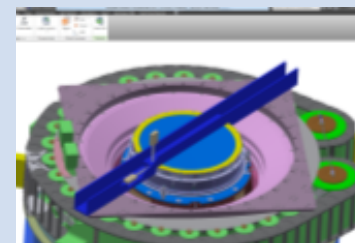
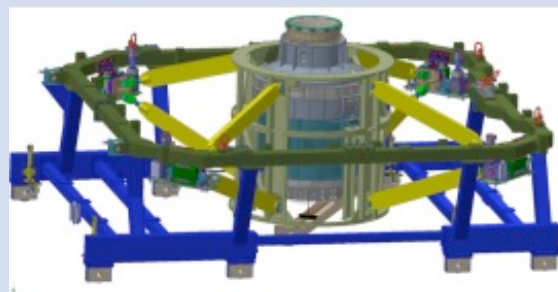


PRI AIT/V planning

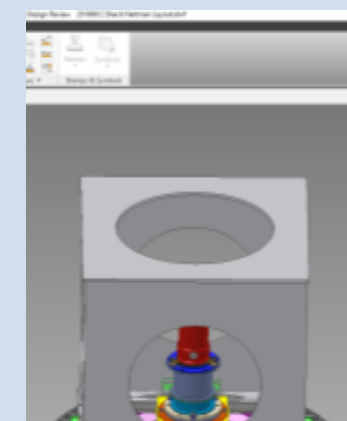
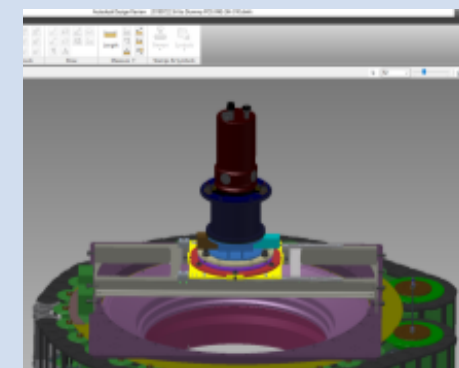
1. Auto-Guider at bare Prime Focus
Work has been documented
Mechanics is manufactured



2. WCS AIT/V off- telescope
Work has been planned
Philosophy is known already



3. PFC/SH on-sky
Work has progressed
(optical calculations, documentation)





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Telescope-operator activities (Lucia)

Lucía Suárez

Day-time work

Supporting the optics team:

- Supporting AIV WCS Alignment procedure
- PFC+SH Zemax design
- Dustmeter (atmosphere modelling)

Finishing science projects

Three generations of massive stars: a possible case of sequential star formation

Linking three generations of massive stars 3

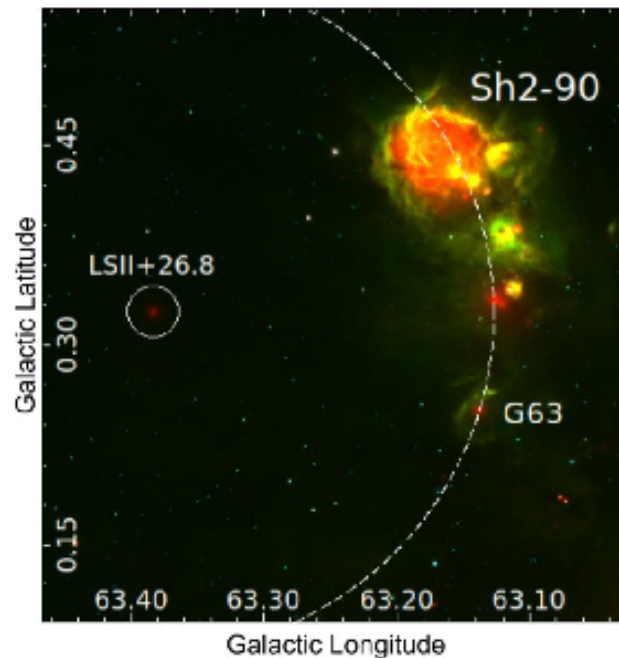


Figure 1. Three-colour image displaying the GLIMPSE/Spitzer emissions at 8 and 4.5 μm (green and blue, respectively), and the MIPS/Spitzer at 24 μm (red). It is remarked that the star LSII+26.8 is located at the geometric center of a semi-shell-like HII regions complex, composed by Sh2-90 and HRDS G063.137+00.252 (indicated as G63).

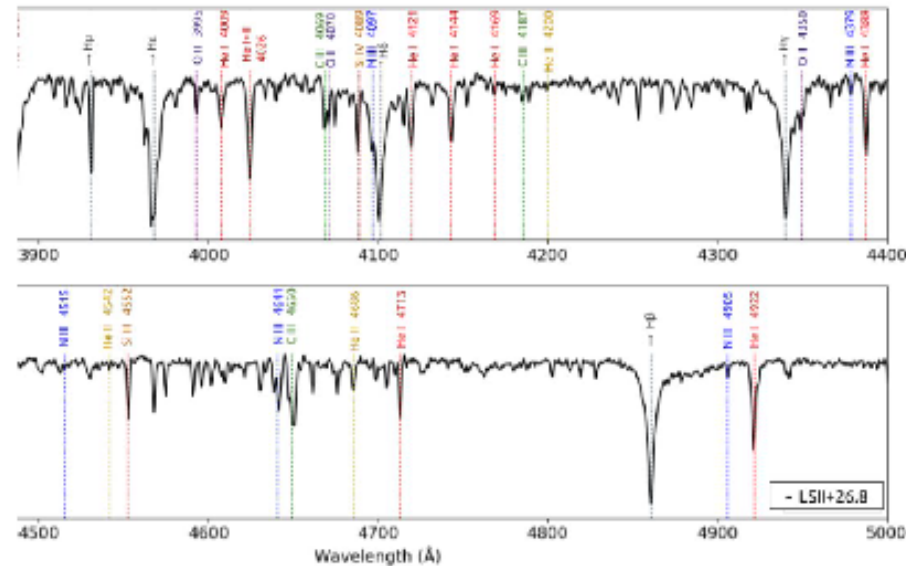


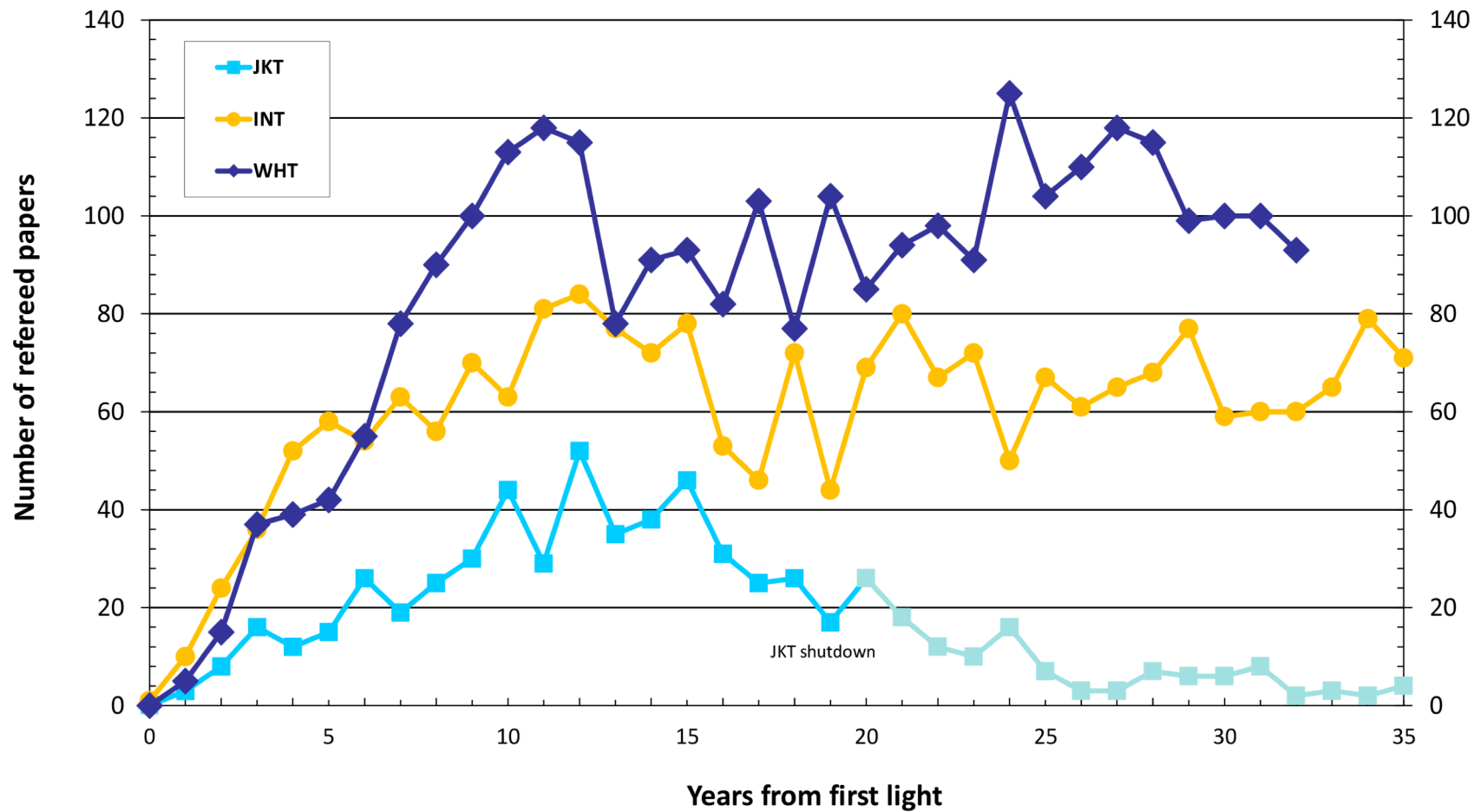
Figure 2. Spectrum of the star LSII+26.8 obtained from the IDS at the Isaac Newton Telescope.



IDS@INT data



Paper counts from ING (Javier)





ING Computing - Don



ING Computing

April 2020



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Software

- WEAVE
 - VMS control of TCS
 - WRS
 - FTS
 - ADC
 - UltraDAS
 - Tools for testing
 - PCDs and rescheduling
- Weather station
- Software deployment
- Code reviews
- Troubleshooting database

The screenshot displays a Jira issue tracker interface. At the top, there are two columns: '1 To Do' and '3 In Progress Max 3'. Below these, there are sections for 'TIS Developer Love 1 issue' and 'Everything Else 10 issues'. The 'Everything Else' section is expanded to show three issues:

- TIS-68** (High priority): Homepage footer uses an inline style - should use a class. Status: Large Team Support.
- TIS-49** (Low priority): Draft network plan for Mars Office. Status: Local Mars Office (5).
- TIS-17** (Medium priority): Engage Saturn's Rings Resort as a preferred provider. Status: Space Travel Partners (3).
- TIS-20** (Medium priority): Engage Saturn Shuttle Lines for group tours. Status: Space Travel Partners (3).



IT

- Infrastructure support
 - Access to general ING services
 - Atlassian products
 - BSCW
 - Web servers
 - VPN
 - Mail system
 - Antivirus
 - OS security
 - Ancillary systems (FW, DHCP, LDAP)
 - iSCSI servers
- Management of old accounts
- Software licenses
- Computers for individuals
- STFC federal IDs
- Zoom accounts
- Disaster recovery procedures





T&I- Diego

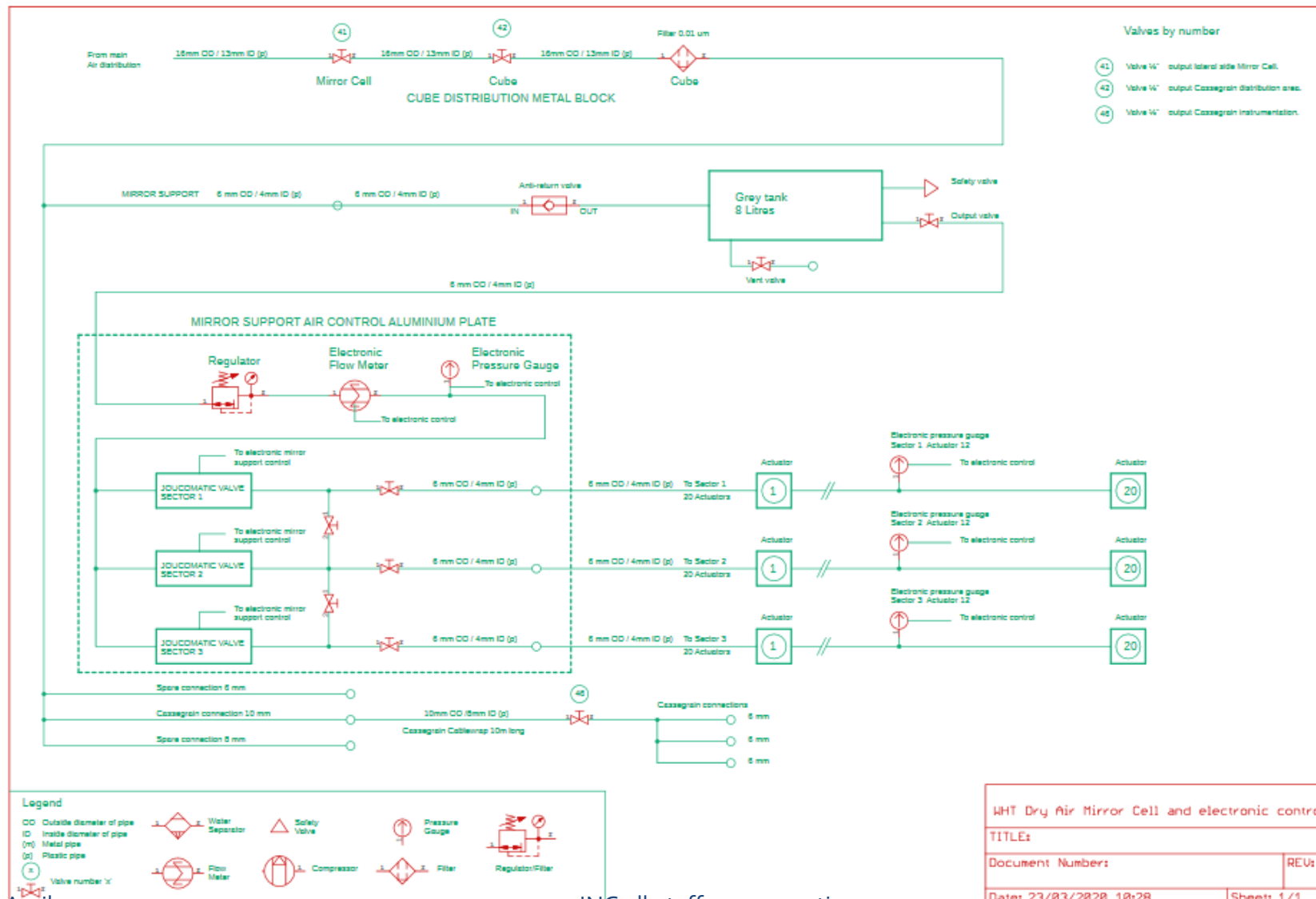


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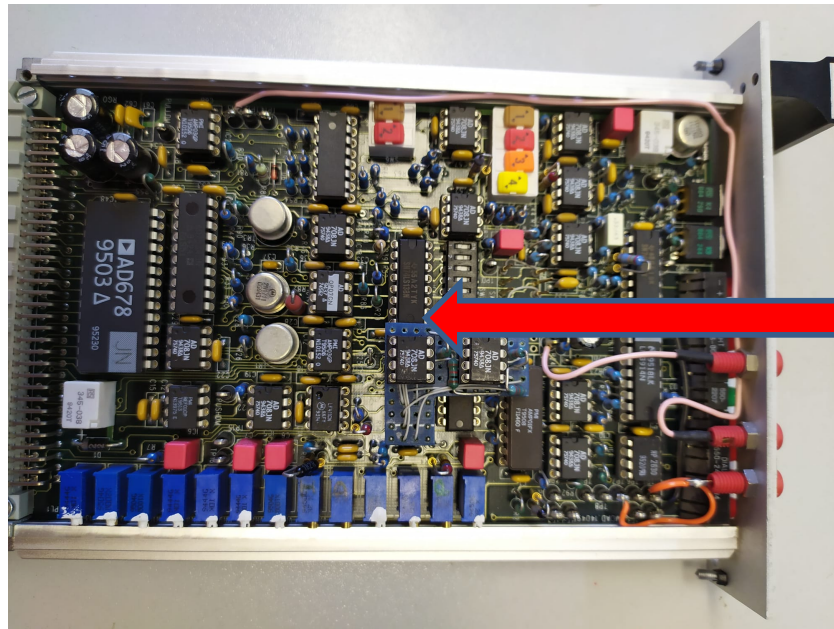
1.- Documentation

WHT Mirror support system pneumatics

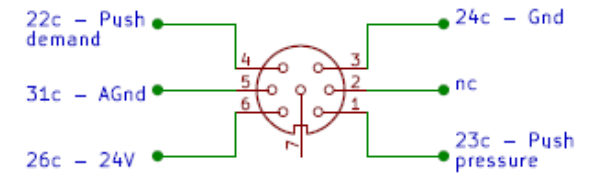


2.- Documentation

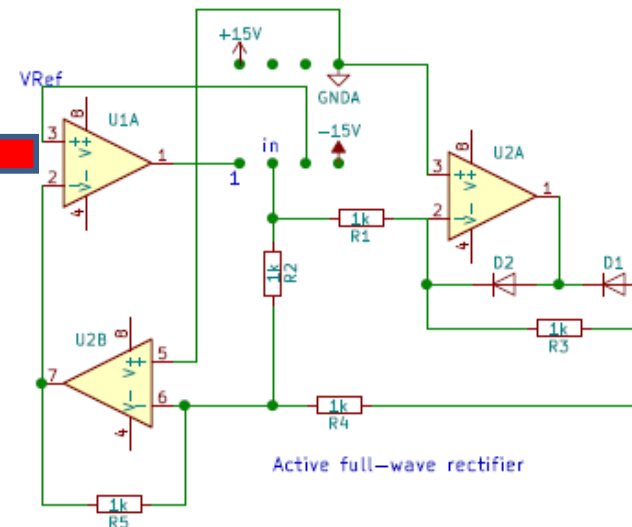
WHT Mirror support system electronics



Joucomatic connection to DMSC board:

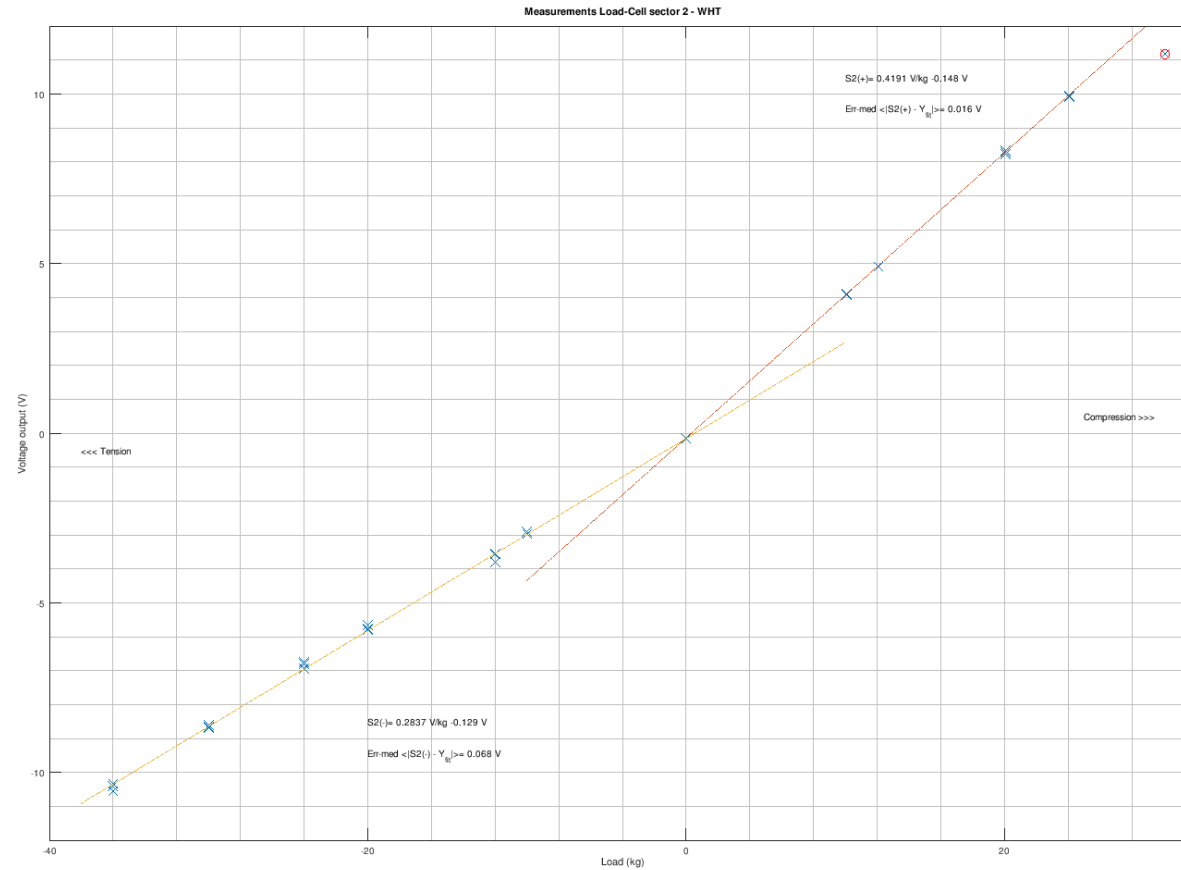


Socket IC3 on DMSC board

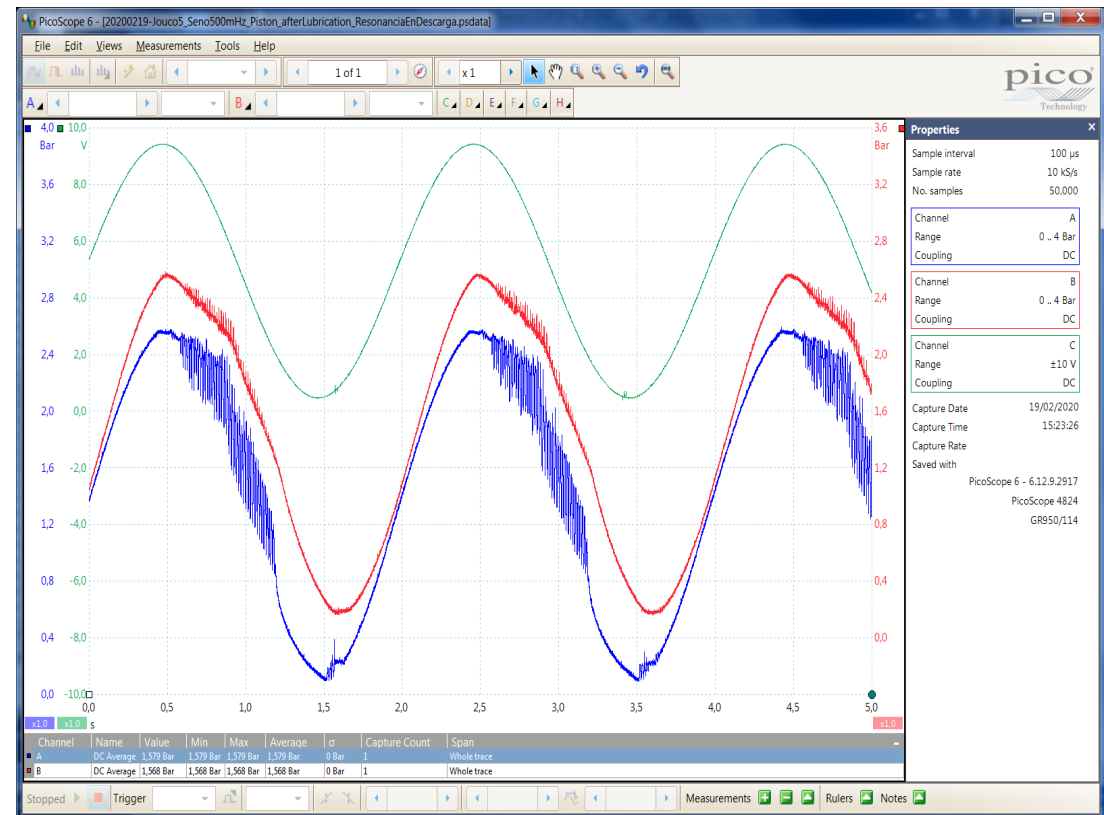
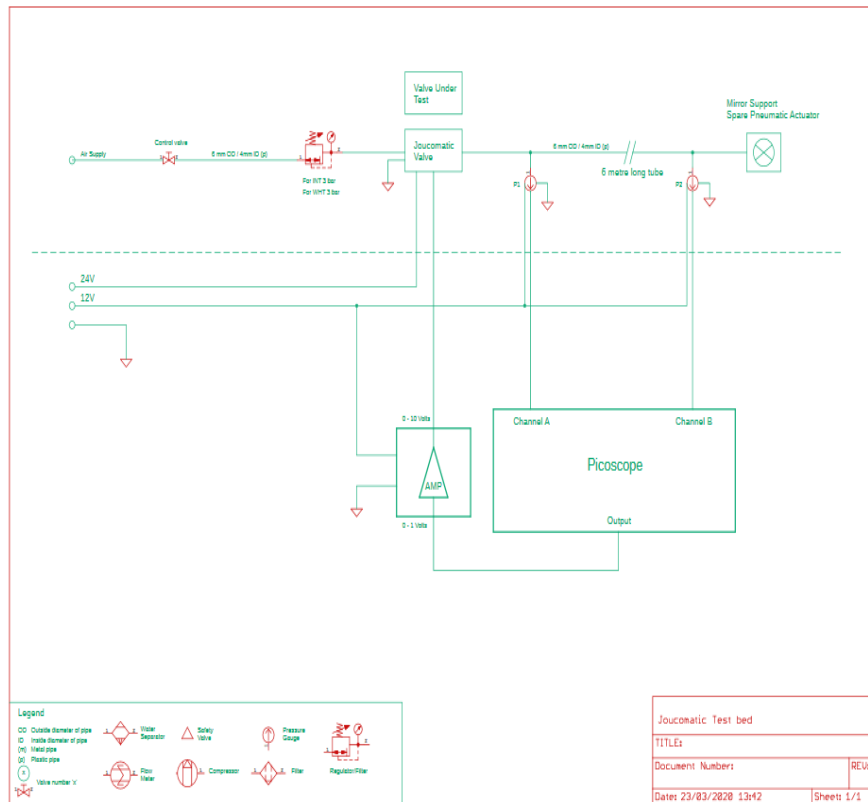


3.- Documentation

WHT Load cells calibration/analysis



4.- Documentation Joucomatic test bench



Training in house + Searching outside

```
C:\tmp\kk\Curso_AWK_DevC++\DomeMargins.c - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
RECTA : struct
VECTOR : struct
AddVect(VECTOR *v, double p, VE
Comblin(VECTOR *v, double p, VE
Contacto(double x) : double
Dif(VECTOR *v, VECTOR *a, VECT
Distancia(double alfa) : double
Init(double a, double b, double c) :
main(int argc, char **argv) : int
Minimiza(double*px, double delta
Modulo(VECTOR *a) : double
Newton(double *px, double (*fun
Norma2(VECTOR *a) : double
Prod(VECTOR *a, VECTOR *b) : d
Uso(char *error, char **argv) : vo
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adeg : double
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D : double
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P : VECTOR*
pi : double
Rdext : double
Rib : double
Rs : double
Seps : VECTOR*
Sw : double
tmp : VECTOR*
DomeMargins.c
1 /*
2 Programa para calcular el margen de desalineamiento de la cúpula del
3 WHT, sin que se produzca viñeteo. Esto es posible porque la anchura
4 del shutter es 6.395 m, mucho mayor que el diámetro del espejo (4.20 m).
5 ( Para la referencia de Los algoritmos usados ver doc. del DOME controller )
6
7 Diego Cano Infantes 15-V-18
8 */
9
10 #include <stdio.h>
11 #include <stdlib.h>
12 #include <math.h>
13 #include <string.h>
14 #include <time.h>
15
16 typedef struct { double x,y,z; } VECTOR;
17 typedef VECTOR PUNTO; // un punto es conceptualmente diferente pero la estructura es igual
18 typedef struct { PUNTO *p; VECTOR *v; } RECTA;
19
20 #define Igual(x, y) memcpy(x, y, sizeof(VECTOR))
21 #define SQR(x) (x)*(x)
22 #define Set(v, a, b, c) (v)->x=a; (v)->y=b; (v)->z=c
23
24 /******
25 // Variables globales
26 double pi, arad, adeg;
27 // Parámetros del telescopio y del dome (en m) + Field of view de WEAWE = 2 grados
28 double D=4.20, Rdext=13.124, Rs, dtd=2.465, dmo=1.75, Sw=6.395, FOVg=2.;
29
30 /******
31 VECTOR *Init(double a, double b, double c)
32 { // aloca memoria e inicializar vector
33 VECTOR *v;
34
35 v=malloc(sizeof(VECTOR)); // asumimos que hay 3 bytes !
36 if (v==NULL) {
37 fprintf(stderr,"Error in malloc for vector initialization\n");
38 exit(2);
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Science and
Technology
Facilities Council



ING Admin - Juanjo



Photo courtesy of the Isaac Newton Group of Telescopes, La Palma

April 2020



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Technology
Facilities Council



ING Admin. Challenges

01

PROCUREMENT



Purchases

Freights

HR



Payroll

Bajas/Consultas del Personal

Coordinación Actividades Emp.

Seguridad Social

FINANCE



Accountancy adjustments

Budget execution

End of Financial Year

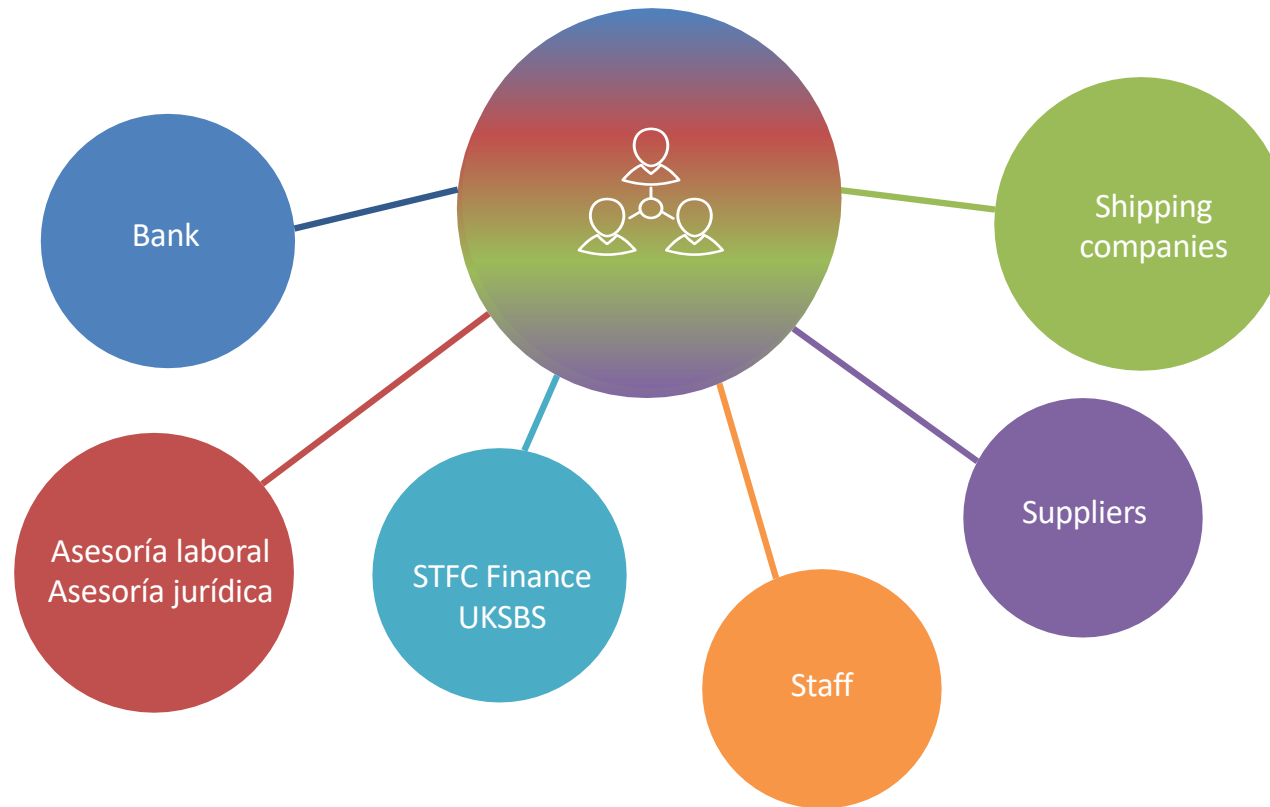


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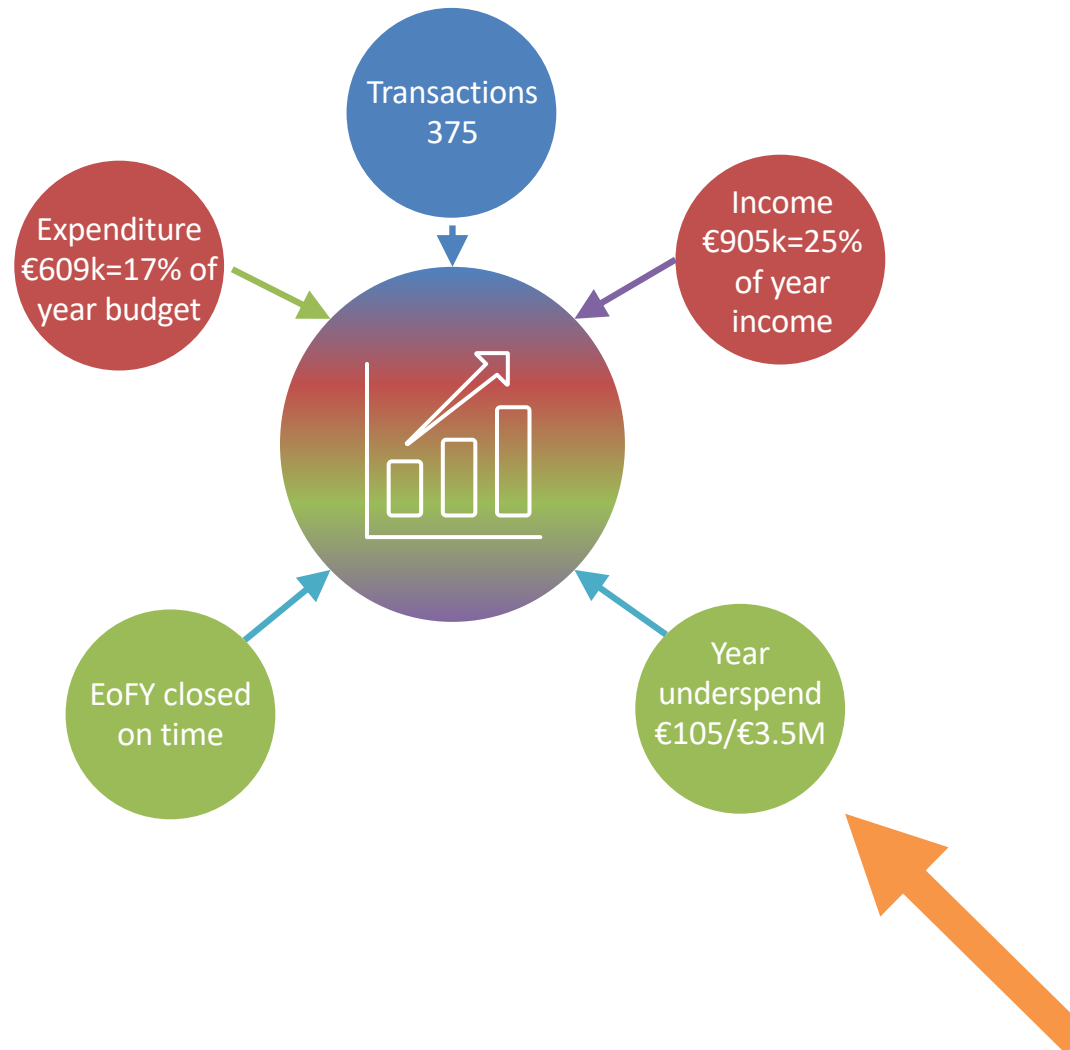
ING Admin. Coordination

01



ING Admin. March performance

02



ING Admin Modernization. **Digitation**

03



ORACLE
BUSINESS INTELLIGENCE



 **Jira**

 **Confluence**

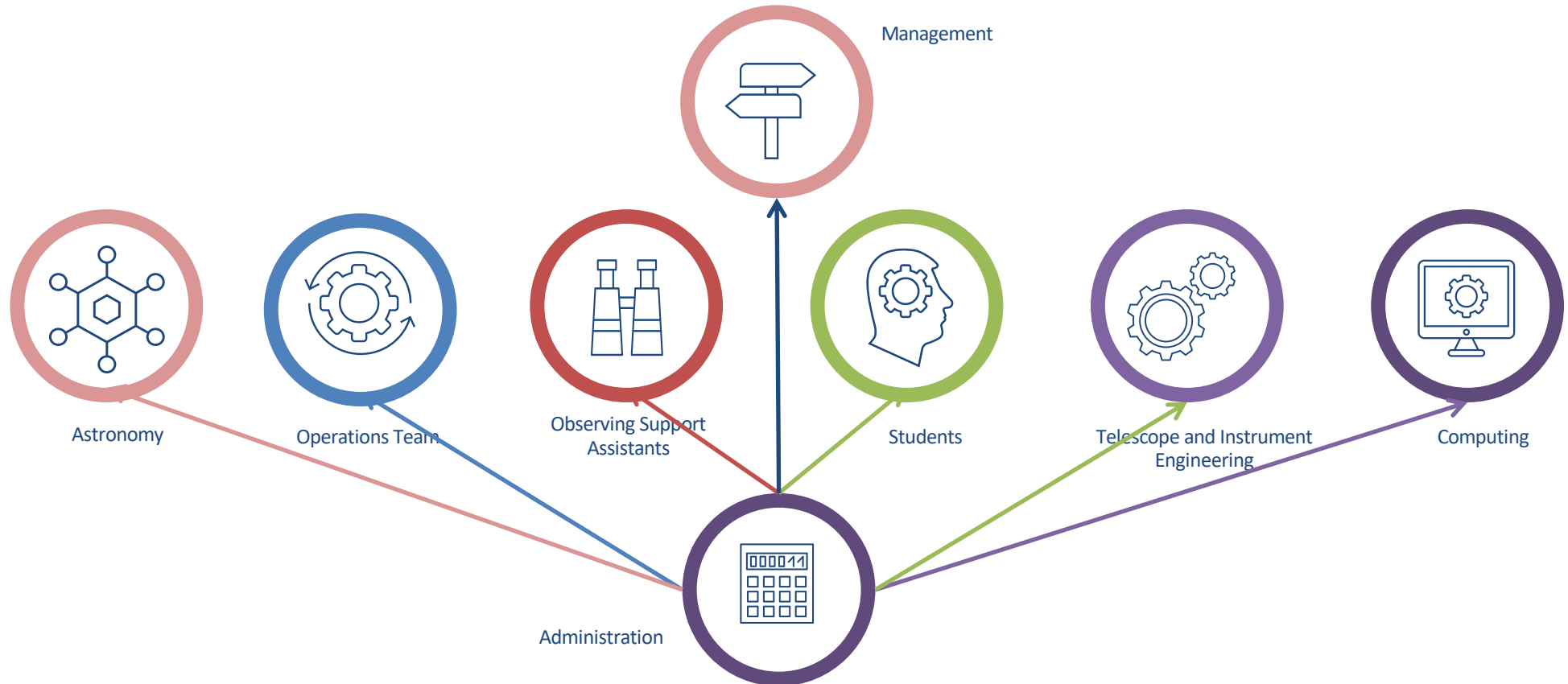


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Admin Department Thanks

04





Operations - Juerg



Actividades operaciones:

- Reuniones diarias
- Adquisición material informático
- Entrenamiento informático (Jira, Confluence, Zoom)
- Actualizaciones de tareas Jira
- PWPR
- Compras al final de año financiero
- Cursos (on-line, diagnosis de vehículos, awk con Diego)
- Nuevas pagina 'Operations' en confluence:
 - Diagnosis de averías de Vehículos
 - Electricity Supply
 - Analizador de red eléctrica
- Intervenciones ORM
 - Cierre
 - Suministro LN₂
 - Comprobaciones
 - Instalación analizador de red eléctrica
 - Conexión de UPS del INT a la red informática

Diagnosis de vehículos



Analizador de red eléctrica



Toma de Datos

Tensión (V)		Corriente (A)		Total	
V1	237.69	V12	411.50	P	30.456 kW
V2	237.48	V23	411.66	Q	-9.996 kvar
V3	237.87	V31	411.84	S	32.364 kVA
VFavg	237.68	VLavg	411.66	PF	-0.941 Fr 50.04
I1	48.168	I2	40.104	I3	47.868
IN	4.200	lavg	45.372		

L1		L2		L3	
P	10.956 kW	P	9.084 kW	P	10.416 kW
Q	-2.988 kvar	Q	-2.628 kvar	Q	-4.380 kvar
S	11.448 kVA	S	9.528 kVA	S	11.388 kVA
PF	-0.957	PF	-0.953	PF	-0.915

SALIR / EXIT



WEAVE - Don



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WEAVE

Update and Status

April 2020

Latest updates

- [Two-degree PFC system](#)
 - FTS
 - WRS
 - WCS
- [Fibre Positioner System](#)
- [Fibre System](#)
- [Spectrograph system](#)
 - Detectors
- [Observatory Control System](#)
- [Core processing system](#)
- [WHT Support Facilities](#)
- [Advanced Processing System](#)
- [WEAVE Archive System](#)





Current status

- Project suspended with some but little progress being made within the systems
- Project delayed (by > six months – see [this](#))
- Opportunity for the project to improve documentation and procedures
- Opportunity for ING to revisit specific WEAVE preparation activities





Looking ahead - Marc

Looking ahead – returning to normal

- We *will* return to normal – (end April? end June?)
- Our interruption: smaller than for others (Jobs, paychecks maintained; Company does not go bankrupt)
- Asking MG and Group Heads to focus on being ready for the times after return





My personal view

- Difficult times. Major disruption for all of society, and for ING ambitions for this year.
- Challenges at personal level for many of us
 - Health risk, us + family members
- Things won't be the same afterwards
 - If we work together we will come out stronger
- Impressed by response of our team
 - Thanks to all!

We give power to what we focus on, so keep your eyes on the best!



If you have questions or suggestions, share them





QUESTIONS