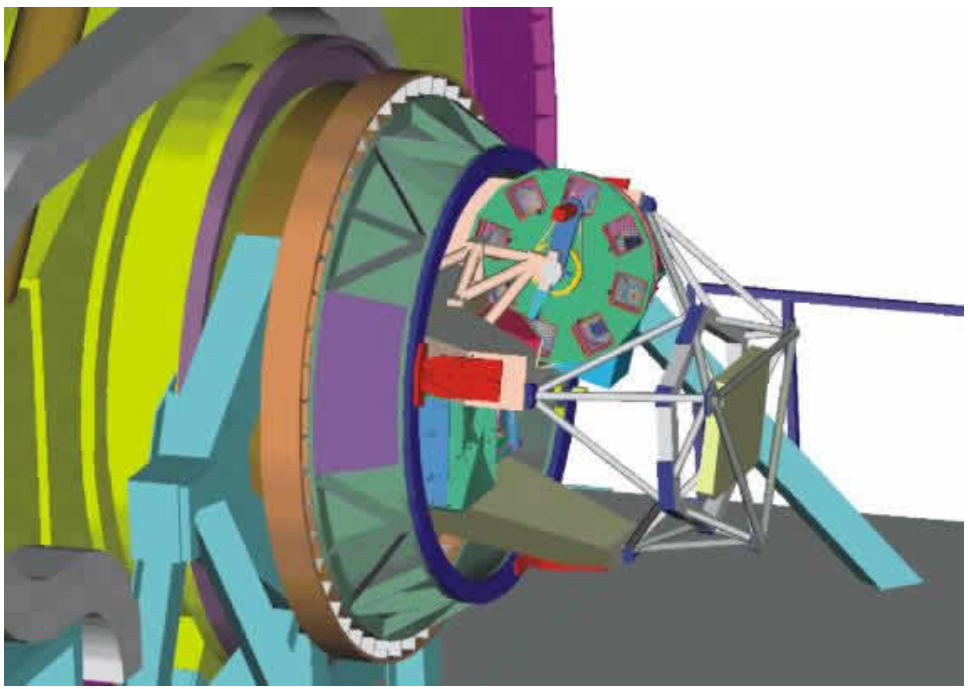
OSIRIS - ESTALLIDOS

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IAC & IAA-CSIC

OSIRIS

OSIRIS is an imaging system and a low-resolution long slit and multi-object spectrograph for the GTC.



PERFORMANCES

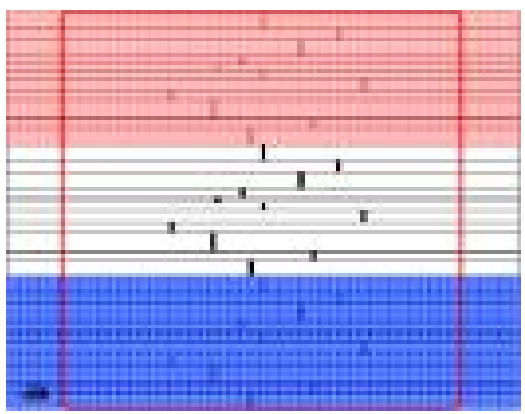


FOV: 8.5’ x 8.5’ direct imaging
8.5’ x 5.2’ low resolution spectroscopy
Unvigneted FOV: 8’ x 8’
Scale: ~ 0.125 arcsec x pix
$\Delta\lambda$: Nominally 365 – 1000 nm
Filters: TFs & BBF in SDSS system
Spectral Resolutions: R = 250, 500, 1500, 2500

OBSERVING MODES
IMAGING WITH TFs

Standard: Whole OSIRIS FOV is used and only one wavelength range is tuned.

Charge-shuffled continuum subtraction mode



OBSERVING MODES
SPECTROSCOPY



Long Slit Spectroscopy: A single slit 8.5’ long

MOS: Whole Field (8.5’ x 5.5’)

MOS + N&S

UPDATES (OSIRIS<-> EST) (just taken from the owen)



Exposure Time Calculator (preliminary version working on)

Mask Calculator (preliminary version working on)

- α & δ (absolute coordinates)
- OSIRIS image (interactive mode)
- images from archives (e.g. SDSS)

Observation Manual (OSIRIS Primer v1.2)

Wavelength & Shorter Order Visor

What can ESTALLIDOS add to the OSIRIS team?

- Expertise and results in the study of nearby starburst.
- Explore how far (in z) we can go in our tools and method.
- Contribute to define procedures to fill the gap among high and low z studies.
- Propose and perform, in a coherent and organized way, a set of observational proposals pushing OSIRIS to its best.

Future proposals for OSIRIS

- Intracluster PNs (broad band and TF)
- Galaxy Morfology in nearby clusters.
- Star formation in nearby clusters.
- Detection of SGWs in starbursts. Detection of SGWs in starbursts: Physical link SSCs and SGWs..(feedback OSIRIS-EMIR-FRIDA-HST)

Multi Object Spectroscopy + Nodd & Shuffling provides a very powerful tool for the study of many objects in small fields in a very efficient way. Thus, OSIRIS will be THE DEVICE for studying star formation in galaxy clusters and SSCs in starburts..

What can we add to the OSIRIS team?

- Expertise and results in the study of nearby starburst.
- Explore how far (in z) we can go in our tools and method.
- Contribute to define procedures to fill the gap among high and low z studies.
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OSIRIS proposals

List_updated on january 2006

Other proposals...EMIR-EAST

Future proposals for OSIRIS

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- Galaxy Morfology in Nearby clusters.
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- Expertise and results in the study of nearby starburst.
- Explore how far (in z) we can go in our tools and method.
- Contribute to define procedures to fill the gap among high and low z studies (e.g. Cervantes et al., talk in this meeting).
- Propose and perform, in a coherent and organized way, a set of observational proposals pushing OSIRIS to its best.

Please save or print a copy of this for your records. Further information

can be found at the end of this page.

PI Name.....Jesus Gallego

PI Email address.....jgm@astrax.fis.ucm.es

Host Institute location..Spain

Co Investigators.....E. Alfaro

Subject Category.....galactic

Title of Investigation... On the nature of stellar emission line emitters

at high galactic latitude

Scientific Justification

Estudio de falsas detecciones: Objetos estelares irregulares

Objetos con indicios de emision a altas latitudes galacticas

Candidatos a tipo espectral intermedio superigante, a gran distancia (halo)

Variables cataclismicas de varios tipos con HeII 8237, NI8240 en emision

Queremos comprobar si son binarias espectroscopicas o cual es su naturaleza

Futuro procedimiento fotometrico de busqueda de variables cataclismicas a

altas latitudes galacticas.

Primer objetivo: tipo espectral

Observations requested

Observar los que tengan EWs mayores

alta prioridad

Coordenadas en J2000 y magnitudes aparentes en banda I:

RA DEC

a4-2126 A2I 16:03:28.2 +54:37:53.50 rotor joven peculiar magnetico lejana

a4-2158 K2III 16:03:28.5 +54:27:39.67 EW gorda, candidato variable cataclismica

I=19.1 y I=21.8

baja prioridad

a3-3420 F5I 16:05:17.9 +54:36:10.93 rotor joven peculiar magnetico lejana

a3-10108 M2V 16:00:00.5 +54:26:52.75 brillante, candidato var cataclismica

estas dos ultimas tienen I=18.0 y I=18.0

Una hora para cada una

En el rojo, queremos Halfa y 8200 a la vez

Halfa indica actividad y 8200 conecta con el estudio

En el azul,

Hbeta con baja resolucion espectral

Comparacion con libreria de espectros de variables cataclismicas

Olvidar velocidades, vamos a caracterizar

Paper de referencia:

Pascual, Gallego et al, 2001, A&A 379, 798