



Uploading data to Black Hole Target Observation Manager

Paweł Zieliński

Astronomical Observatory, University of Warsaw



///AkondLab.

Photometric data viewing

Gaia19dke

Update

Delete

Fetch target names

Names	Gaia19dke
Target Type	SIDEREAL
Right Ascension	291.49451
	19:25:58.682
Declination	28.40686
	+28:24:24.696
Epoch	2000.0
Galactic Longitude	62.011128810184644
Galactic Latitude	5.704135187425682
gaia_alert_name	Gaia19dke
calib_server_name	ivo://Gaia19dke
ztf_alert_name	
aavso_name	
gaiadr2_id	
TNS_ID	AT2019ndl
classification	long-term microlensing event with parallax
tweet	False
jdlastobs	2459204.2041666666
maglast	0.0
priority	10.0
discovery_date	
cadence	1.0

Photometry

Spectroscopy

Upload

Observe

Observations

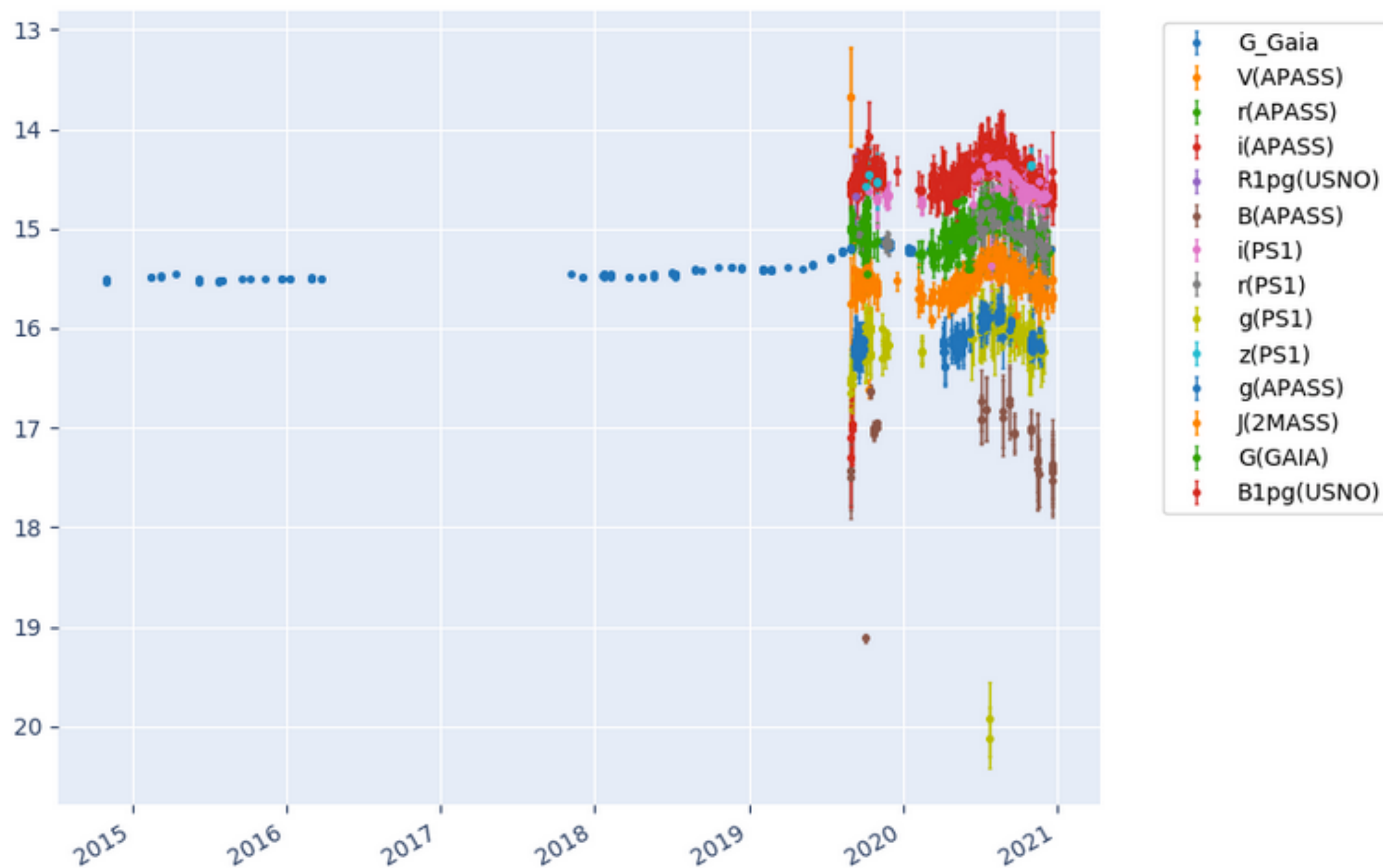
Manage Groups

Data

Photometry


Check for new data

Interactive photometry plot



Download photometry data

Photometric data uploading

 BHTOM

[Targets](#) [Target Grouping](#) [Observatories](#) [About](#)

Pawel Zielinski

Logout

Gaia19dke

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Target Type	SIDEREAL
Right Ascension	291.49451
	19:25:58.682
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Galactic longitude	1128810184644
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gaia_alert_name	Gaia19dke
calib_server_name	ivo://Gaia19dke
ztf_alert_name	
aavso_name	
gaiadr2_id	
TNS_ID	AT2019ndl
classification	long-term microlensing event with parallax

Photometry

Spectroscopy

Upload

Observe

Observations

Manage Groups

Data

Upload a data product

Here you can upload your photometric and spectroscopic observations for this target. Please refer to the BHTOM manual for details.
Example CSV formats for [photometry](#) and [spectroscopy](#). SExtractor format is required for instrumental photometry. FITS is supported for spectra.
For photometric FITS processing choose the observatory from the list. You can add a new instrument [here](#).

Files

Przeglądaj...

Nie wybrano plików.

Data product type

☒ Instrumental photometry file (SExtractor format)

☐ Fits image for photometric processing

☐ Spectrum as ASCII

☐ Photometric time-series (CSV)

MJD OBS

MJD OBS

Exposure time (sec)

Exposure time (sec)

this tab to upload data

name in CPCS must be provided

add file: ASCII, FITS format or CSV table

Photometric data uploading - ASCII file

Gaia19dke

Update

Delete

Fetch target names

Names Gaia19dke

Target Type SIDEREAL

Right Ascension 291.49451

19:25:58.682

Declination 28.40686

+28:24:24.696

Epoch 2000.0

Galactic Longitude 62.011128810184644

5.704135187425682

example text file

at least 4 columns
provided:
MAG_AUTO
MAGERR_AUTO
ALPHA_J2000
DELTA_J2000

```
# 1 NUMBER Running object number
# 2 ALPHA_J2000 Right ascension of barycenter (J2000) [deg]
# 3 DELTA_J2000 Declination of barycenter (J2000) [deg]
# 4 XWIN_IMAGE Windowed position estimate along x [pixel]
# 5 YWIN_IMAGE Windowed position estimate along y [pixel]
# 6 MAG_AUTO Kron-like elliptical aperture magnitude [mag]
# 7 MAGERR_AUTO RMS error for AUTO magnitude [mag]
# 8 BACKGROUND Background at centroid position [count]
# 9 A_IMAGE Profile RMS along major axis [pixel]
# 10 B_IMAGE Profile RMS along minor axis [pixel]
# 11 FWHM_IMAGE FWHM assuming a gaussian core [pixel]
# 12 CLASS_STAR S/G classifier output
1 291.5328628 +28.4474270 100.4095 38.7342 10.1409 0.0127 -90.70372 2.951 2.737 5.75 0.981
2 291.4861426 +28.4490933 307.1425 31.1673 10.8410 0.0234 -109.7653 2.822 2.462 6.25 0.948
3 291.5498720 +28.4520085 25.3475 15.2787 10.3215 0.0145 -83.38744 2.864 2.631 5.95 0.980
4 291.5208246 +28.4487692 153.6870 32.1969 11.3691 0.0353 -92.87447 2.497 2.270 6.15 0.890
5 291.4604822 +28.4523428 420.6172 15.2423 12.8075 0.0767 -115.8202 1.453 1.318 4.96 0.390
6 291.4921082 +28.4526426 280.9579 12.9566 12.6766 0.0685 -100.3306 1.571 1.411 6.38 0.400
```

Photometry

Spectroscopy

Upload

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Ob

Data

Upload a data product

Here you can upload your photometric and spectroscopic o

details.
Example CSV formats for [photometry](#) and [spectroscopy](#)

supported for spectra.
For photometric FITS processing ch

Files

Przeglądaj...

Nie wybrano plików.

Data product type

- ☒ Instrumental photometry file (SExtractor format)
- ☐ Fits image for photometric processing
- ☐ Spectrum as ASCII
- ☐ Photometric time-series (CSV)

uploading ASCII file
with instrumental
photometry

instrumental
photometry file

Photometric data uploading - ASCII file

BHTOM Targets Target Grouping Observatories About Wojciech Zielinski Logout

Galactic Latitude	5.704135187425682
gaia_alert_name	Gaia19dke
calib_server_name	ivo://Gaia19dke
ztf_alert_name	
aavso_name	
gaiadr2_id	
TNS_ID	
classification	
tweet	False
	2459204.2041666666
	0.0
	10.0

Dry Run option

complete the details of observation

- ☒ Instrumental photometry file (SExtractor format)
- ☐ Fits image for photometric processing
- ☐ Spectrum as ASCII
- ☐ Photometric time-series (CSV)

MJD OBS

MJD OBS

Exposure time (sec)

Exposure time (sec)

Matching radius

Default for the Observatory

☒ Dry Run (no data will be stored in the database)

Observatory

Force filter

Auto

Comment

Comment

select matching radius to match [RA, Dec] with catalogue coordinates

select the observatory where the data were taken

select the catalogue filter to calibrate the data

view

12000 15 25 58.682 128 24 24.70


1 arcmin

FoV: 9.97

N

E

Photometric data uploading - FITS image

 BHTOM

TargetsTarget GroupingObservatoriesAbout

Pawel ZielinskiLogout

Gaia19dke

UpdateDeleteFetch target names

Names	Gaia19dke
Target Type	SIDEREAL
Right Ascension	291.49451
	19:25:58.682
Declination	28.40686
	+28:24:24.696
Epoch	2000.0
Galactic Longitude	62.011128810184644
Galactic Latitude	5.704135187425682
gaia_alert_name	Gaia19dke
calib_server_name	ivo://Gaia19dke
ztf_alert_name	
aavso_name	
gaiadr2_id	
TNS_ID	AT2019ndl
classification	long-term microlensing event with parallax
tweet	False

PhotometrySpectroscopyUploadObserveObservations

Upload a data product

Here you can upload your photometric and spectroscopic observations. For details, see the BHTOM manual for photometry. FITS is supported for spectra. Example CSV formats for [photometry](#) and [spectroscopy](#). For photometric FITS processing choose an observatory from the list. You can add a new instrument [here](#).

Files

Przeglądaj... Nie wybrano plików.

Data product type

- Instrumental photometry file (SExtractor format)
- ☒ Fits image for photometric processing
- Spectrum as ASCII
- Photometric time-series (CSV)

Matching radius

Default for the Observatory

☐ Dry Run (no data will be stored in the database)

Observatory

uploading FITS image after standard calibration (bias, dark, flat-field frames reduction)

FITS files processing (automatic, based on information provided during creation of account and approved by admin)

Checking the results of photometric calibration

this tab to see the uploaded data

Gaia19dke

Update

Delete

Fetch target names

Names

Gaia19dke

Target Type

Right Ascension

Declination

Epoch

Galactic Longitude

34644

Galactic Latitude

5187425682

gaia_alert_name

Gaia19dke

calib_server_name

ivo://Gaia19dke

ztf_alert_name

aavso_name

gaiadr2_id

TNS_ID

AT2019ndl

classification

long-term microlensing event with parallax

tweet

False

Photometry

Spectroscopy

Upload

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Observations

Manage Groups

Data

All

Your file

File

Photometry

Type

Observatory

Status

Feature

ccd00035_OSZQi...

448.dat

Fits image

OSTROWIK_TEK512

Finished

Detail

Delete

Feature

437.dat

Instrumental photometry

OSTROWIK_TEK512

Finished

Detail

Delete

Feature

ccd00035.fts

437.dat

Fits image

OSTROWIK_TEK512

Cpcs error: INTERNAL ...

Detail

Delete

Feature

ccd00034.fts

434

OSTROWIK_TEK512

Cpcs error: INTERNAL ...

Detail

Delete

Feature

ccd00038_FYmns...

430.dat

OSTROWIK_TEK512

Cpcs error: INTERNAL ...

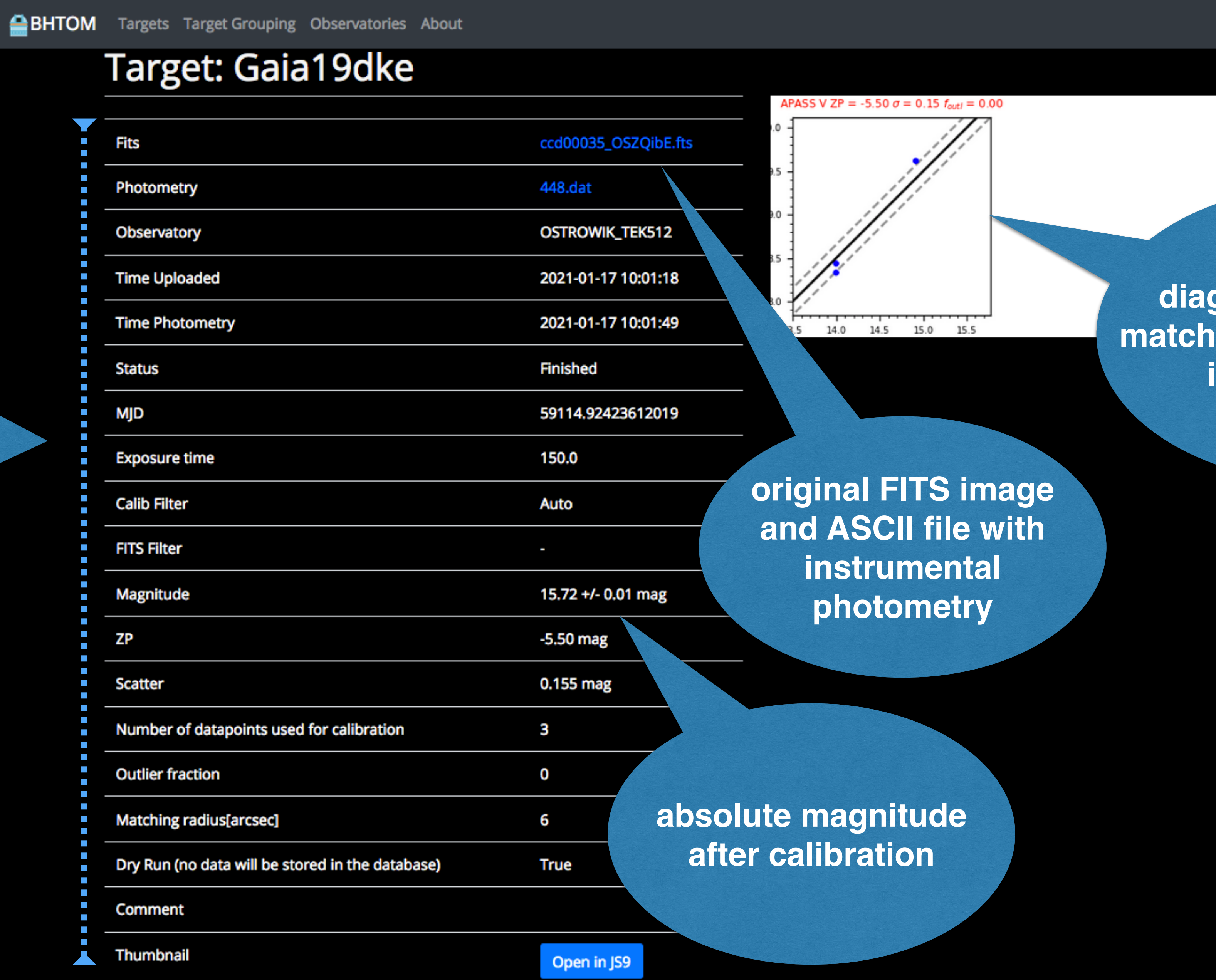
Detail

Delete

this button to see the details of calibration

checking the details and removing the data possible only for your files

Checking the results of photometric calibration



results of data processing and calibration

original FITS image and ASCII file with instrumental photometry

absolute magnitude after calibration

diagram showing best matching to catalogue data in selected filter

Photometric data uploading - CSV table

BHTOM

Targets

Target Grouping

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Fetch target names

Names

Gaia19dke

Target Type

SIDEREAL

Right Ascension

291.49451

Declination

19:25:58.682

Epoch

2000.0

Galactic Longitude

62.011128810184644

Galactic Latitude

5.704135187425682

gaia_alert_name

Gaia19dke

calib_server_name

ivo://Gaia19dke

Photometry

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Upload a data product

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Files

Przeglądaj...

Nie wybrano plików.

Data product type

Instrumental photometry file (SExtractor format)

Fits image for photometric processing

Spectrum as ASCII

☒ Photometric time-series (CSV)

Comment

Comment

example CSV table

# FACILITY: LCO				
# OBS-NAME: Observer's Name				
time	filter	magnitude	error	
55959.069999999983	r	15.582	0.005	
55959.069999999983	g	15.676	0.007	
55959.069999999983	v	15.591	0.008	

uploading CSV file with photometric data


photometric time-series, e.g. downloaded from AAVSO database

late

1.0

Upload

Spectra uploading

BHTOM

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Pawel Zielinski

Logout

Gaia20fnr

Update

Delete

Fetch target names

Names

Gaia20fnr

Target Type

SIDEREAL

Right Ascension

90.267

Declination

06:01:4.080

Epoch

-18.9677

Galactic Longitude

-18:58:3.720

Galactic Latitude

2000.0

gaia_alert_name

224.87750824442153

ivo://Gaia20fnr

-19.372360970063426

10.0

10.0

Photometry

Spectroscopy

Upload

Observe

Observation

Upload a data product

Here you can upload your photometric and spectroscopic observations. For details, see the documentation. Example CSV formats for [photometry](#) and [spectroscopy](#) are provided. FITS is supported for spectra. For photometric FITS processing choose an observatory from the list. You can add a new instrument [here](#).

Files

Przeglądaj...

Nie wybrano plików.

Data product type

Instrumental photometry file (SExtractor format)

Fits image for photometric processing

☒ Spectrum as ASCII

Photometric time-series (CSV)

Comment

DATE-OBS: 2019-12-09

wavelength flux

3341.26928710937 1.464014E-16

3345.34836769104 1.447222E-16

3349.4274482727 7.000821E-17

3353.50652885437 4.936740E-17

3357.58560943603 7.570946E-17

10.0

10.0

Upload

uploading ASCII file with spectrum

spectrum as ASCII file

example text file with wavelength and flux provided

Spectra viewing

Gaia20fnr

Update

Delete

Fetch target names

Names	Gaia20fnr
Target Type	SIDEREAL
Right Ascension	90.267
	06:01:4.080
Declination	-18.9677
	-18:58:3.720
Epoch	2000.0
Galactic Longitude	224.87750824442153
Galactic Latitude	-19.372360970063426
gaia_alert_name	Gaia20fnr
calib_server_name	ivo://Gaia20fnr
ztf_alert_name	
aavso_name	
gaiadr2_id	2990431491637998848
TNS_ID	AT2020ably
classification	Potential bright microlensing event
tweet	False
jdlastobs	2459221.3975941
maglast	12.87
priority	10.0

Photometry

Spectroscopy

Upload

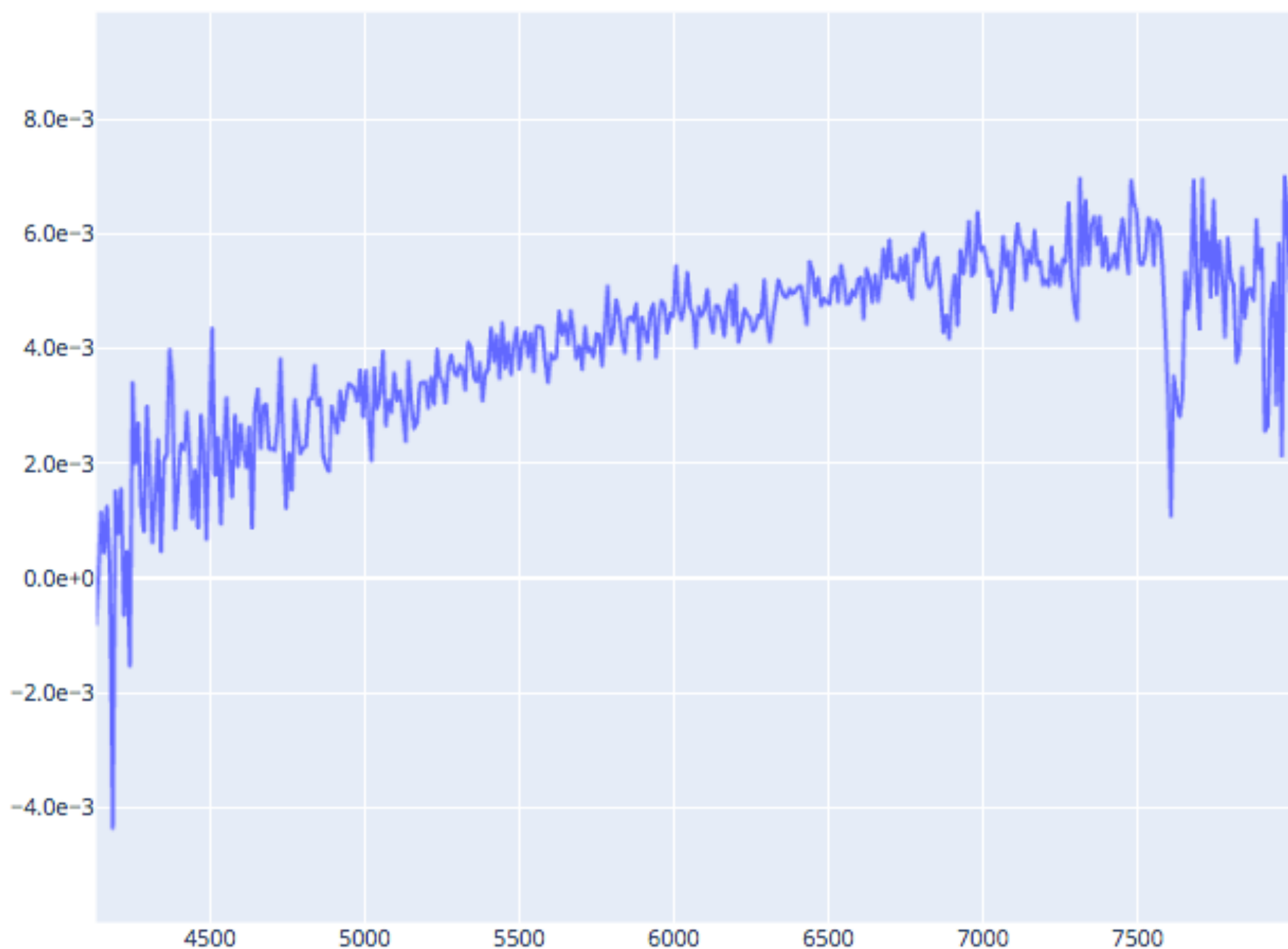
Observe

Observations

Manage Groups

Data

Spectroscopy



Download spectroscopy data

Thank you!



More on hands-on sessions:
Tue, 19 Jan 2021, 18:00 CET
Wed, 20 Jan 2021, 15:00 CET

Paweł Zieliński
pzielinski@astrouw.edu.pl

