

An Interactive Sky Map based on the Byurakan Plate Archive

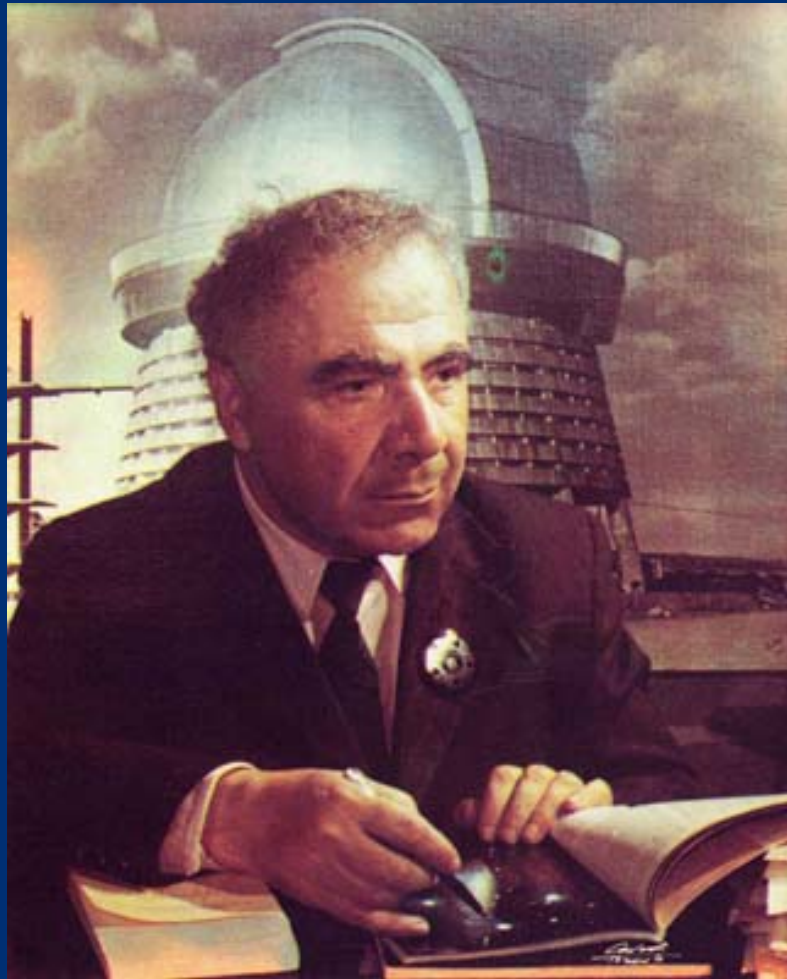
Gor Mikayelyan¹,

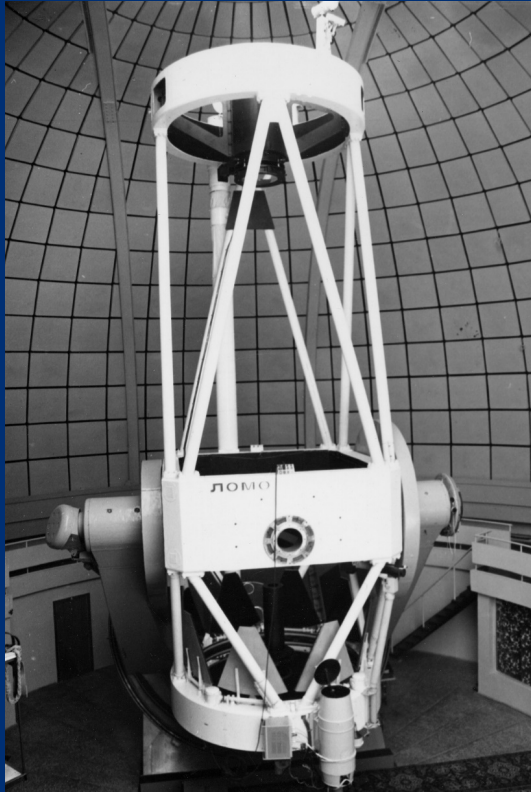
Aram Knyazyan², Hayk Abrahamyan¹, Daniel Baghdasaryan¹, Areg Mickaelian¹

1 - Byurakan Astrophysical Observatory (BAO)

2 - Institute for Informatics and Automation Problems

*EWASS-2018, S06: Software in Astronomy,
05.04.2018, Liverpool, United Kingdom*

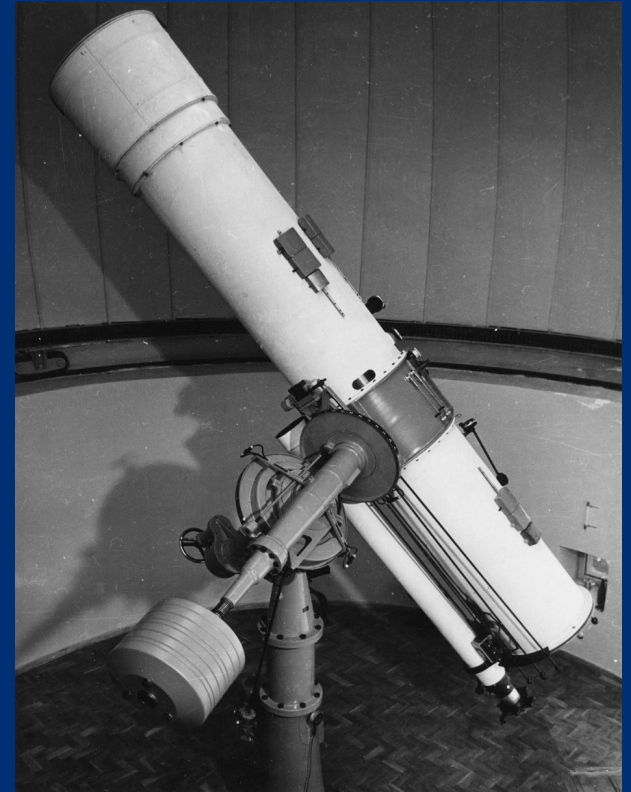




ZTA-2.6M TELESCOPE
1975



1M SCHMIDT TELESCOPE
1960



0.5M SCHMIDT TELESCOPE
1955-1991

BAO telescopes & observational material

Telescope name	Size (cm)	Years	Observ. methods	Plates
5" double-astrograph	13	1947-1950	photometry	3000
6"	15	1947-1950	photometry	3000
8" Schmidt	20/20/31	1949-1968	photometry	4500
20" Cassegrain	51/800	1952-1991	electrophotometry	
10" tel.-spectrograph	25	1953-	spectra	
nebular spectrograph		1954-	spectra	
16" Cassegrain	41/400	1955-1991	electropolarimetry	
21" Schmidt	53/53/183	1955-1991	photometry	12000
40" Schmidt (AZT-10)	102/132/213	1960-1991	photom., spectra	7500
ZTA-2.6m	264/1016	1975-1991	photom., spectra	7000
All telescopes		1947-1991		37000



BYURAKAN ASTROPHYSICAL OBSERVATORY PLATE ARCHIVE PROJECT



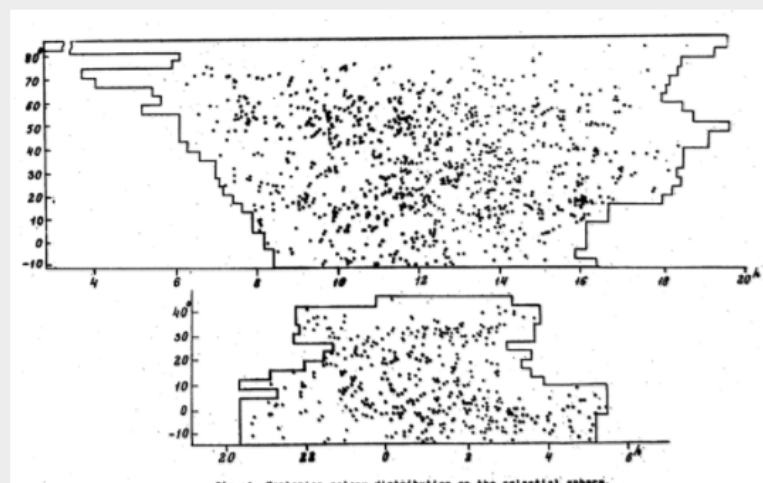
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Markarian Survey: FBS & DFBS



- First systematic objective-prism survey
- The largest objective-prism survey of the Northern sky (17,000 sq. deg)
- New method of search for AGNs
- 1515 UVX galaxies: 181 Seyferts, 17 LINERs, 13 QSOs, 3 BLLs, 95 Starburst, 26 HII galaxies
- Classification of Seyferts: Sy1 & Sy2 (Weedman & Khachikian)
- Definition of Starburst galaxies (Weedman)
- Other projects: FBS BSOs, RS, opt. ident. (BIG & BIS objects)





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BAO Observational Database

All Plates
Telescope
Observer
Program
Year
Prism
Filter
Emulsion

Database

Show



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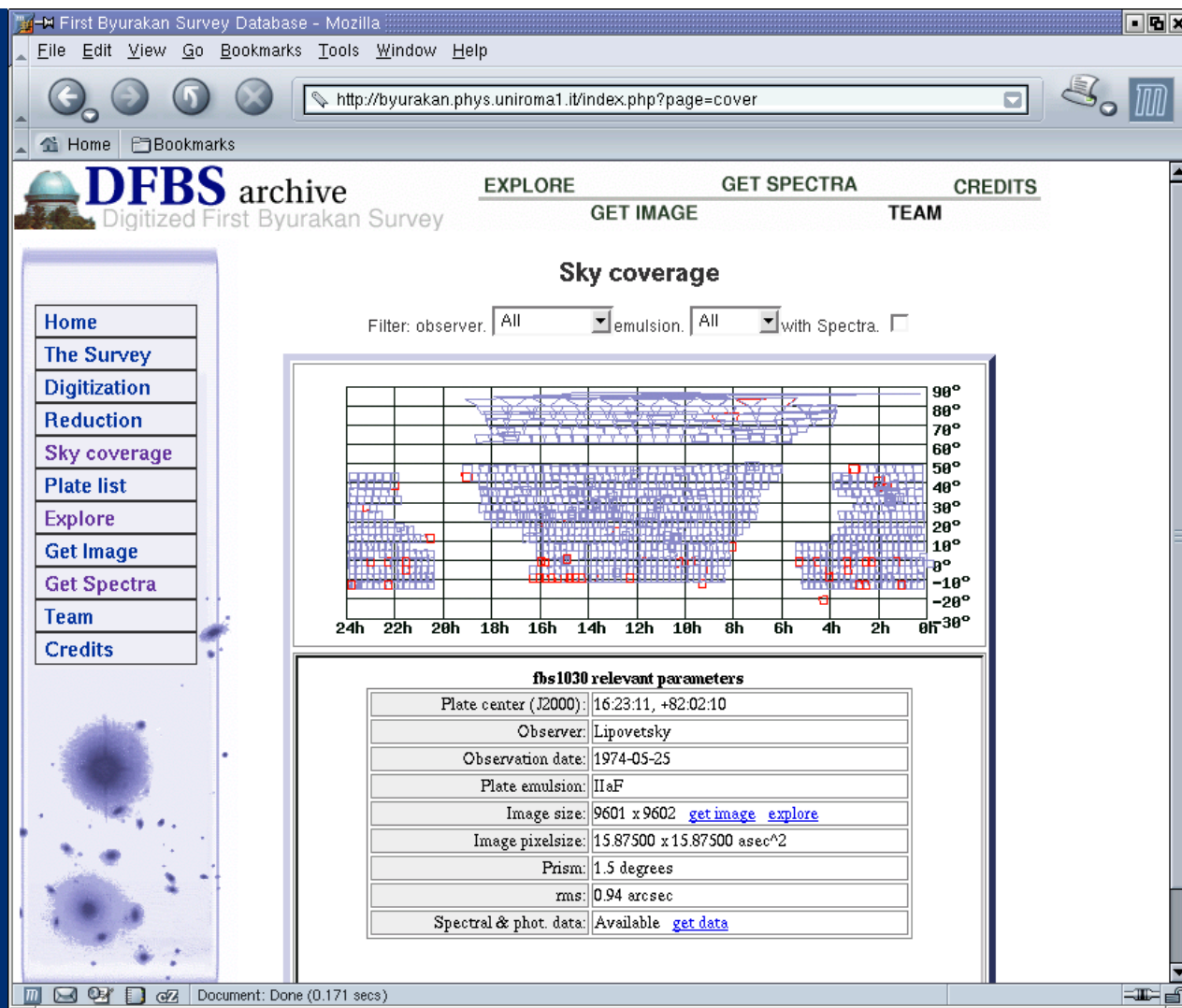


BAO Observational Database

Telescope - 1m-Schmidt

[Main](#)

Observer's number	Journal number	Program	Survey number	Zone	Day	Month	Year	Exposure		R.A.				DEC		Centre	Object	Prism	Emulsion	Filter	Observer
								multiple	min	h	m	s	deg	am	as						
	6239	FBS	1362	-21	31	10	1975			4	16		-21					1.5	IIF		Stepanian
	6238	FBS	1361	-17	31	10	1975			4	16		-17					1.5	IIF		Stepanian
	6259	FBS	1382	-17	5	11	1975			5	20		-17					1.5	IIF		Stepanian
	4839	FBS	859	-13	27	9	1973			2	0		-13					1.5	IIAF		Lipovetsky
	4859	FBS	879	-13	28	9	1973			3	0		-13					1.5	IIAF		Lipovetsky
	5595	FBS	1123	-13	24	9	1974			3	0		-13					1.5	IIAF		Lipovetsky
	4825	FBS	845	-13	26	9	1973			4	0		-13					1.5	IIAF		Lipovetsky
	5540	FBS	1069	-13	19	9	1974			21	0		-13					1.5	IIAF		Lipovetsky
	4928	FBS	945	-13	27	10	1973			1	15		-13					1.5	IIAF		Lipovetsky
	4821	FBS	841	-13	26	9	1973			2	15		-13					1.5	IIAF		Lipovetsky
	4874	FBS	894	-13	29	9	1973			3	15		-13					1.5	IIAF		Lipovetsky
	5596	FBS	1124	-13	24	9	1974			3	15		-13					1.5	IIAF		Lipovetsky
	4862	FBS	882	-13	28	9	1973			4	15		-13					1.5	IIAF		Lipovetsky



First Byurakan Survey Database - Mozilla

File Edit View Go Bookmarks Tools Window Help

http://byurakan.phys.uniroma1.it/explore2.php?ra_in=21%3A32%3A03&dec_in=-12%3A47%3A42

Home Bookmarks

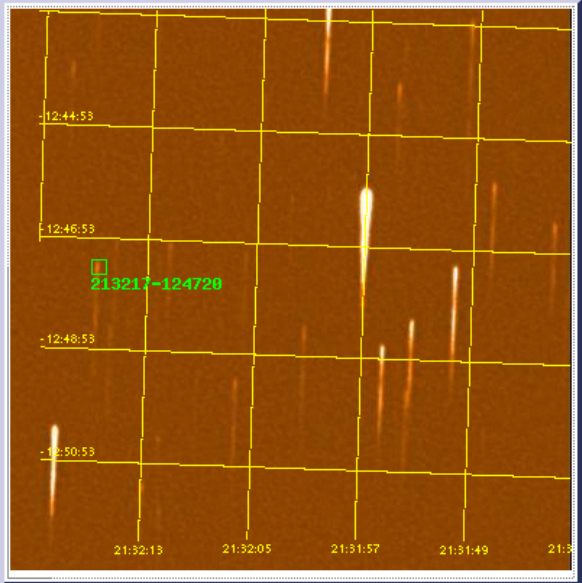
DFBS archive
Digitized First Byurakan Survey

EXPLORE GET SPECTRA CREDITS
GET IMAGE TEAM

center
Ra: 21:32:03
Dec: -12:47:42
get Image

Options
☒ Grid
☒ Label
☒ Position
Compare with:

Image found in plate fbs1053
centered at (21:31:43.208, -12:45:22.17)



id: 213217-124720
wavelength (nm)
2.8 1.8 0.8 -0.1
837 486 401 316
10 30 50 80 120
pixels

collect view collection

(J2000) ra: 21:32:17.373
(J2000) dec: -12:47:20.34
R: 14.22
B: 15.24
Class: OK
Length: 101.0

Document: Done (0.967 secs)

THANK YOU!!!