

OBSERVING PROGRAMMES SUBMITTED THROUGH THE EUROPEAN SPACE AGENCY

- AB040 STUDY OF THE PECULIAR VARIABLE STAR GAMMA BOO
A BAGLIN, J M LE CONTEL, F PRADERIE/INSTITUT D'ASTROPHYSIQUE, PARIS
- AR020 OBSERVATIONS OF OBJECTS WITH UNCERTAINTIES IN THE MKK CLASSIFICATION;
WITH DISCREPANCIES BETWEEN CHALONGE AND MKK CLASSIFICATION OR WITH
ABNORMAL PASCHEN DISCONTINUITY
A RINGUEL/OBSERVATORIO ASTRONOMICO, LA PLATA (ARGENTINA)
- BD033 OBSERVATIONS OF SUPERNOVAE REMNANTS
P RENVENUTI, S D'ODORICO/OSSERVATORIO ASTROFISICO DI ASIAGO
- BW019 CHROMOSPHERES OF A-SUPERGIANTS
B WOLF/EUROPEAN SOUTHERN OBSERVATORY, SANTIAGO (CHILE)
- CB031 STELLAR CHROMOSPHERES
C. BLANCO, S. CATALANO, E. MARILLI/OSSERVATORIO ASTROFISICO, CATANIA
- CC038 OBSERVATIONS OF MARKARIAN GALAXIES
C CASINI/OSSERVATORIO ASTRONOMICO DI BRERA, MERATE
- CP035 UV OBSERVATIONS OF COMPACT EXTRAGALACTIC I R EMITTERS
O CITTERIO, P DI BENEDETTO, E TANZI, G C PEROLA/LABORATORIO DI FISICA
COSMICA, MILANO; M TARENGHI/STEWART OBSERVATORY, TUCSON, ARIZONA
- DF010 OBSERVATIONS OF CIII EMISSION IN PLANETARY NEBULAE
D R FLOWER/OBSERVATOIRE DE PARIS; H NUSSBAUMER/GRUPPE FUR ATOM UND
ASTROPHYSIK, ZURICH
- FBA24 STUDY OF IRR II TYPE GALAXIES
F BERTOLA, G DI TULLIO/OSSERVATORIO ASTRONOMICO, PADOVA
- FBR24 INVESTIGATIONS OF THE U, V, CONTINUUM IN ELLIPTICAL GALAXIES
F BERTOLA, M CAPACCIOLI/OSSERVATORIO ASTRONOMICO, PADOVA
- FC027 POPULATION II B-TYPE STARS WITH WEAK HELIUM LINES
P L BERNACCA, F CIATTI/OSSERVATORIO ASTROFISICO DI ASIAGO
- FG006 STUDIES OF STELLAR MG II LINES AT 2800 ANGSTROMS
K. FREDGA, G. F. GAHM/STOCKHOLM OBSERVATORY; B. GUSTAFSSON/UPPSALA
OBSERVATORY
- FM050 A STUDY OF THE MASS-LOSS PROCESS IN EARLY-TYPE STARS
F MACCHETTO/ASTRONOMY DIVISION, ESTEC, NOORDWIJK;
C DE JAGER, H J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT
- FP047 DIAGNOSTICS OF VELOCITY FIELDS, MASS-LOSS AND CHROMOSPHERES IN A TYPE
GIANTS AND SUPERGIANTS
F PRADERIE, E SIMONNEAU, R N THOMAS/INSTITUT D'ASTROPHYSIQUE, PARIS;
H J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT
- GG005 ULTRAVIOLET SPECTRUM OF T TAURI STARS
G. F. GAHM, K. FREDGA/STOCKHOLM OBSERVATORY

GM045 U, V. OBSERVATION OF AP STARS
M GERBALDI, N MORGULEFF/INSTITUT D'ASTROPHYSIQUE, PARIS;
C MEGESSIER, V DOAZAN/OBSERVATOIRE DE PARIS

GP036 GALAXIES IN THE CLUSTERS COMA, HERCULES AND A 2199
G C PEROLA/LABORATORIO DI FISICA COSMICA, MILANO; W JAFFE/STERREWACHT,
LEIDEN; M TARENGHI/STEWART OBSERVATORY, TUCSON, ARIZONA

HL048 SHORT TIME VARIABILITY OF EARLY-TYPE SUPERGIANTS
H J LAMERS, C DE JAGER/SPACE RESEARCH LABORATORY, UTRECHT

HM021 PECULIAR A-STARS
H M MAITZEN/ASTRONOMISCHES INSTITUT, BOCHUM

HM043 OBSERVATIONS OF T TAURI STARS AND OB SUPERGIANTS
H MAUDER/ASTRONOMISCHES INSTITUT DER UNIVERSITAT TUBINGEN

KH001 HYDROGEN DEFICIENT STARS AND RELATED OBJECTS
K. HUNGER/INSTITUT FUR ASTROPHYSIK, BERLIN

KH014 A STUDY OF Q-TYPE STARS
K A VAN DER HUCHT/SPACE RESEARCH LABORATORY, UTRECHT

KH052 SHORT TIME VARIABILITY OF TWO WOLF-RAYET STARS
K A VAN DER HUCHT/SPACE RESEARCH LABORATORY, UTRECHT;
F MACCHETTO/ASTRONOMY DIVISION, ESTEC, NOORDWIJK

LH006 STUDY OF LUMINOSITY EFFECTS IN THE SPECTRUM OF H-TYPE STARS
L HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.

LHA07 INVESTIGATION OF IO AND NI EXCITATION MECHANISMS IN BE STARS
L. HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.

LHB07 OBSERVATIONS OF THREE PECULIAR HOT STARS
L. HOUZIAUX/DEPARTEMENT D'ASTROPHYSIQUE, UNIVERSITE DE MONS.

LS017 OBSERVATIONS OF THE EXISTING STARS OF COMPACT HII REGIONS
L F SMITH/MPI FUR RADIOASTRONOMIE, BONN

LS044 OBSERVATION OF INTERSTELLAR ABSORPTION LINES OF ATOMS AND MOLECULES
L F SMITH, G WINNERWISSER/MPI FUR RADIOASTRONOMIE, BONN

MG012 STUDY OF OPEN CLUSTERS AND SELECTED FIELD STARS
M GOLAY, A GAIDE, G COY, A MAEDER/OBSERVATOIRE DE GENEVE

MHA02 EXCEPTIONAL PINARIES OR SUSPECTED BINARIES
B. CESTER, R. FARAGGIANA, M. HACK, M. PUCILLO/OSSERVATORIO ASTRONOMIC, TRIESTE

MHR02 EARLY-TYPE SUPERGIANTS
M. HACK, F. LANFRE-CASTELLI, R. STALIO/OSSERVATORIO ASTRONOMIC, TRIESTE

MHC02 AP AND MAGNETIC STARS
R. FARAGGIANA, M. HACK, F. LANFRE-CESTELLI, P.O. SELVELLI/OSSERVATORIO
ASTRONOMIC, TRIESTE

MHD02 BP AND HE-POOR STARS OF POPULATION I AND II
M HACK, R STALIO/OSSERVATORIO ASTRONOMIC, TRIESTE

- MH011 A STUDY OF WOLF-RAYET STARS IN SELECTED EMISSION LINES
M C E MURER, H NUSSBAUMER/GRUPPE FUR ATOM UND ASTROPHYSIK, ZURICH
- MP028 UV OBSERVATIONS OF PLANETARY NEBULAE
M PERINOTTO, P PATRIARCHI/OSSERVATORIO ASTROFISICO, ARCETRI
- MP029 INVESTIGATION OF THE U V CONTINUUM IN THE ORION NEBULA
M PERINOTTO/OSSERVATORIO ASTROFISICO, ARCETRI
- MR003 CHROMOSPHERIC ACTIVITY IN DWARF STARS
M. REGO, M. J. FERNANDEZ-FIGUEROA/DEPARTAMENTO DE ASTRONOMIA, UNIVERSIDAD DE MADRID; M. LOPEZ ARROYO/OBSERVATORIO ASTRONOMICICO DE MADRID.
- MU009 OBSERVATIONS OF NUCLEI OF TWO SEYFERT GALAXIES AND A QSO
M H ULRICH/DEPARTEMENT D'ASTROPHYSIQUE, OBSERVATORIE DE PARIS
- NH051 EMISSION AND VARIABILITY IN AE-TYPE STARS
S DUMONT, N HEIDMANN, R N THOMAS/INSTITUT D'ASTROPHYSIQUE, PARIS;
L V KUHI/DEPARTMENT OF ASTRONOMY, BERKELY UNIVERSITY, CALIFORNIA
- PB030 U V INTERSTELLAR EXTINCTION IN THE DIRECTION OF OB ASSOCIATIONS
M PERINOTTO, G TAGLIAFERRI/OSSERVATORIO ASTROFISICO, ARCETRI;
J. AIELLO, A BONETTI, F MENCARAGLIA/ISTITUTO DI FISICA, UNIVERSITA DI FIRENZE
- PR042 OPTICAL COUNTERPARTS OF GALACTIC X-RAY SOURCES
R BARBON, P L BERNACCA, F CIATTI/OSSERVATORIO ASTROFISICO DI ASIAGO;
C REINA, A TREVES/LABORATORIO DI FISICA COSMICA, MILANO; M TARENGHI/
STEWART OBSERVATORY, TUCSON, ARIZONA
- PSA13 PECULIAR EMISSION-LINE OBJECTS
J P SWINGS/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSB13 O AND WR STARS
P SWINGS AND J M VREUX/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSC13 METAL-POOR F AND G STARS
C ARPIGNY/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PSD13 TD1 S2/S68 SELECTED STARS
D MALAISE, F BEECKMANS/INSTITUT D'ASTROPHYSIQUE, LIEGE
- PT037 NUCLEAR REGIONS OF M87, NGC5253 AND NGC5128
G C PERCIVAL/LABORATORIO DI FISICA COSMICA, MILANO; M TARENGHI/STEWART
OBSERVATORY, TUCSON, ARIZONA
- RB039 A SEARCH FOR THE SOLAR FEATURE AT 2085 A IN THE CONTINUOUS SPECTRUM OF
A, F AND G STARS
R M BONNET, D SACOTTE, D SAMAIN/LABORATOIRE DE PHYSIQUE STELLAIRE
ET PLANETAIRE, VERRIERES-LE-BUISSON; F PRADERIE/INSTITUT D'ASTROPHYSIQUE,
PARIS
- RB041 STUDY OF SPECTRAL LINES FROM WHICH TO DETECT STELLAR CHROMOSPHERES IN
A-TYPE STARS
R M BONNET/L.P.S.P. - VERRIERES-LE-BUISSON; M GROSS, F PRADERIE/
INSTITUT D'ASTROPHYSIQUE, PARIS
- RD016 OBSERVATIONS OF INTERSTELLAR ABSORPTION LINES
R J VAN DUINEN, S R POITASCH/DEPARTMENT OF SPACE RESEARCH, UNIVERSITY
OF GRONINGEN

SL034 OBSERVATIONS OF COMPACT EXTRAGALACTIC OBJECTS
J E STENFLO, L LINDEGREN, J LIND/LUND OBSERVATORY

VR032 INVESTIGATIONS OF EMISSION LINES OBJECTS
G B BARATTA/OSSERVATORIO ASTRONOMICCO, ROMA; A CASSATELLA, R VIOTTI/
LABORATORIO DI ASTROFISICA SPAZIALE, FRASCATI

VR032 U. V. OBSERVATIONS OF THE SPECTRUM OF ETA CARINAE
R VIOTTI/LABORATORIO DI ASTROFISICA SPAZIALE, FRASCATI

VH049 THE STUDY OF X-RAY BINARIES
E P J VAN DEN HEUVEL/ASTRONOMICAL INSTITUTE, UTRECHT;
H J LAMERS/SPACE RESEARCH LABORATORY, UTRECHT

VILSP GENERAL STUDIES
P RENVENUTI, A CASSATELLA, J CLAVEL, A HECK, M PENSTON, P SELVELLI/ESTEC
F MACCHETTO/ESTEC, D STICKLAND/VILSPA (SRC)

CLASSIFICATION OF OBJECTS USED IN THE JOINT ESA/SRC LOG OF THE OBSERVATIONS

00	SUN	50	R, N OR S TYPES
01	EARTH	51	LONG PERIOD VARIABLE STARS
02	MOON	52	IRREGULAR VARIABLES
03	PLANET	53	REGULAR VARIABLES
04	PLANETARY SATELLITE	54	DWARF NOVAE
05	MINOR PLANET	55	CLASSICAL NOVAE
06	COMET	56	SUPERNOVAE
07	INTERPLANETARY MEDIUM	57	SYMBIOTIC STARS
08		58	T TAURI
09		59	X-RAY
10	W C	60	SHELL STAR
11	W N	61	ETA CARINAE
12	MAIN SEQUENCE O	62	PULSAR
13	SUPERGIANT O	63	NOVA-LIKE
14	OE	64	
15	OF	65	
16	SD O	66	
17	WD O	67	
18		68	
19		69	
20	B0-B2 V-IV	70	PLANETARY NEBULA + CENTRAL STAR
21	B3-B5 V-IV	71	PLANETARY NEBULA - CENTRAL STAR
22	B6-B9.5 V-IV	72	H II REGION
23	R0-R2 III-I	73	REFLECTION NEBULA
24	R3-R5 III-I	74	DARK CLOUD (ABSORPTION SPECTRUM)
25	R6-B9.5 III-I	75	SUPERNOVA REMNANT
26	BE	76	RING NEBULA (SHOCK IONISED)
27	BP	77	
28	SDB	78	
29	WDB	79	
30	A0-A3 V-IV	80	SPIRAL GALAXY
31	A4-A9 V-IV	81	ELLIPTICAL GALAXY
32	A0-A3 III-I	82	IRREGULAR GALAXY
33	A4-A9 III-I	83	GLOBULAR CLUSTER
34	AE	84	SEYFERT GALAXY
35	AM	85	QUASAR
36	AP	86	RADIO GALAXY
37	WDA	87	BL LACERTAE OBJECT
38		88	EMISSION LINE GALAXY (NON-SEYFERT)
39		89	
40	F0-F2	90	INTERGALACTIC MEDIUM
41	F3-F9	91	
42	FP	92	
43		93	
44	G TYPE	94	
45		95	
46	K TYPE	96	
47		97	
48	M TYPE	98	
49		99	

EXPOSURE CLASSIFICATION CODES

SINCE 1 AUG 78 A TWO-DIGIT CODE HAS BEEN USED TO DESCRIBE EXPOSURE LEVELS. THIS CODE OCCUPIES THE FIRST TWO CHARACTER POSITIONS OF THE COMMENT FIELD.

DIGIT 1: EXPOSURE LEVEL OF CONTINUUM
DIGIT 2: EXPOSURE LEVEL OF EMISSION LINES

THE CLASSIFICATIONS BELOW APPLY TO BOTH:

- 0: NOT APPLICABLE
- 1: NO SPECTRUM VISIBLE
- 2: FAINT SPECTRUM; MAX DN < 20 ABOVE BACKGROUND
- 3: UNDFREXPOSED; MAX DN < 100 ABOVE BACKGROUND
- 4: WEAK; MAX DN BETWEEN 100 AND 150 ABOVE BACKGROUND
- 5: GOOD; NO SATURATION BUT MAX DN OVER 150 ABOVE BACKGROUND
- 6: A BIT STRONG; A FEW PIXELS SATURATED
- 7: SATURATED FOR LESS THAN HALF THE SPECTRUM
- 8: MOSTLY SATURATED BUT SOME PARTS USABLE
- 9: COMPLETELY SATURATED