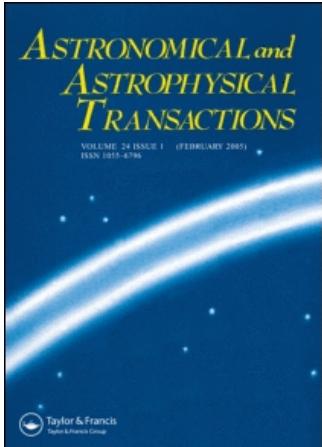


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#### Rotation curves of galaxies: A bibliographical catalog

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## ROTATION CURVES OF GALAXIES: A BIBLIOGRAPHICAL CATALOG

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A catalog is presented which contains bibliographical references to papers describing rotation curves of galaxies obtained from optical or radio observations for about 600 disc galaxies (mostly of Sb–Sd types).

KEY WORDS Rotation of galaxies

Rotation curves of galaxies, which describe the change of velocity of rotation along the radius of the galactic disc, allow us to get the most valuable information both on the mass of these stellar systems and on the radial mass distribution. Information about the masses of separate components of galaxies, such as their discs, bulges, or dark halos also stems from the analysis of rotation curves. Deviations of gas motion from the pure circular rotation which may be obtained from kinematic observations give in turn the information on violent events in the disc (usually related to the sites of active star formation), presence of a bar or of strong spiral density waves in its plane. Many fundamental properties of galaxies such as total luminosity, star formation efficiency, or probability of the nuclear activity also appear to be tightly related to their kinematics. So the rotation curve or velocity field of a galaxy may be considered as key data for analyzing physical processes which take (or took) place in galactic discs.

Fast growing observational material on rotation of galaxies, obtained by different observational methods based on Doppler measurements of spectral lines, often makes it difficult to find the necessary data related to a given galaxy published in the literature. To help this search, we present the bibliographical compilation of references to published papers where information on the rotation curves of disc (mostly spiral) galaxies can be found.

Three bibliographical catalogs published before 1995 contain references on the item discussed. The first one was compiled by Baiezi–Pillastrini *et al.* (1983). It collected references for 271 galaxies of different types, including E and SO, along with some additional information on the galaxies considered. A more homogeneous catalog was presented by Kyazumov (1984). It included data for a sample of S and Ir galaxies with  $V(R)$  curve traced at least to a half of their optical diameters. This

catalog contains twice fewer galaxies than the former one, although it includes some objects missed by Baiezi-Pillastrini *et al.* In 1991, a bibliographical compilation was published by Corradi and Capaccioli (1991) who piled up references by scanning the Abstracts of Astronomy and Astrophysics for the years 1981–1989 (besides using the above-mentioned catalogs). These authors presented references on the kinematics of 245 galaxies (even for cases where rotation curve was very poor defined), but they restricted themselves only to non-barred spirals.

The compilation presented below contains renewed and supplemented list of references for kinematical studies of about 600 disc galaxies. In particular, many papers published in Russian journals were added which were absent in the previous lists. We tried to make the catalog as complete as possible to the end of 1995, although some references for the most recent period may well be missed because of problems with subscription to some journals. The catalog is definitely not full for extreme dwarf galaxies and for strongly distorted systems where large non-circular motions prevent plotting reliable rotation curves. We also ignored very faint distant galaxies ( $z > 0.1$ ): only a few of them have some kinematical data (although their number will definitely increase in the nearest future owing to the new observational technics), and galaxies where the rotation curve was obtained only for circumnuclear region (within 10–15'' from the nucleus), among them are elliptical galaxies with circumnuclear gaseous discs. The bulk of the galaxies presented in the Catalog are of Sb–Sd types. We do not discriminate between barred and non-barred galaxies or galaxies belonging to pairs and multiple systems (groups, clusters) if they reveal regular axial rotation.

The most voluminous complementary information to this catalog related exclusively to southern galaxies is the paper by Mathewson *et al.* (1992) which gives the line-of-sight velocity distribution along major axis obtained from  $H_{\alpha}$  observations for 965 galaxies. Restored rotation curves of these galaxies were presented by Persic and Salucci (1995).

The first column of the Catalog contains the names of the galaxies in their generally used form. Although every galaxy may have different names, only one of them was left. The order of preferred names is evident from the Catalog: top priority is for the NGC number, followed by IC, UGC, and other notations. The second column is the reference itself. References to Russian journals are given for Russian original issues. In the last column the information is given about the type of observations: opt – for optical observations of emission lines; abs – for absorption line measurements (usually for extremely gas-poor galaxies); rad – for radio observations of HI; CO – for measurements of molecular radio lines.

The authors would appreciate receiving additional data to provide permanent renewal of the list of references. An electronic version of this catalogue is also available.

#### *Acknowledgments*

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## *Appendix.* A BIBLIOGRAPHICAL CATALOG

N_0023	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K. Afanas'ev V.L., Zasov A.V.,	Astrofizika (Rus), 1988, 28, 243 Pis'ma v Astron. Zh., 1991, 17, 771	opt
N_0045	Rogstad D.H., Rougoor G.W., Whiteoak J.B. Lewis B.M. Whiteoak J.B.	Astrophys. J., 1967, 150, 9 Austral. J. Phys., 1972, 25, 315	rad
N_0055	De Vaucouleurs G.  Epstein E.E.	Astrophys. J., 1961, 133, 405 Astron. J., 1964, 69, 490	opt
	Seielstad G.A., Whiteoak J.B.	Astrophys. J., 1965, 142, 616	rad
	Robinson B.J., Van Damme K.J.	Austral. J. Phys., 1966, 19, 111	rad
N_0128	Bertola F., Capaccioli M.	Astrophys. J., 1991, 211, 697	opt
N_0157	Burbidge E.M., Burbidge G.R., Prendergast K.H. Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrophys. J., 1961, 134, 874 Astrofizika (Rus), 1988, 28, 243	opt
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	Deharveng J.M., Pellet A.	Astrophys. J., 1966, 144, 639	rad
	Gottesman S.T., Davies R.D.,	Astron. and Astrophys., 1969, 1, 208	opt
	Rubin V.C., Ford W.K.	Mon. Not. Roy. Astron. Soc., 1970, 149, 263	rad
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	Deharveng J.M., Pellet A.	Astron. and Astrophys.,	opt
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	Karachentsev I.D., Mineva V.A.	Pis'ma v Astron. Zh., 1984, 10, 253	opt
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N_1035	Rubin V.C., Ford W.K., Thonnard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1980, 238, 471 Astrophys. J., 1985, 289, 81	opt
N_1052	Whitmore B.C.	Astrophys. J., 1987, 314, 439	opt
N_1055	Kyazumov G.A., Barabanov A.V. Barabanov A.V., Kyazumov G.A.	Pis'ma v Astron. Zh., 1980, 6, 329 Pis'ma v Astron. Zh., 1981, 7, 269	opt
N_1073	England M.N., Gottesman S.T. Hunter J.H.	Astrophys. J., 1990, 348, 456	rad
N_1084	Burbidge E.M., Burbidge G.R., Prendergast K.H. Burbidge E.M., Burbidge G.R., Prendergast K.H. Blackman C.P.	Astrophys. J., 1963, 137, 376 Astrophys. J., 1965, 142, 154 Mon. Not. Roy. Astron. Soc., opt 1980, 190, 459	opt
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	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrofizika (Rus), 1988, 28, 243	opt
N_1085	Rubin V.C., Ford W.K., Thonnard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1982, 261, 439 Astrophys. J., 1985, 289, 81	opt
N_1087	Blackman C.P.	Mon. Not. Roy. Astron. Soc., opt 1980, 191, 123	opt
	Rubin V.C., Ford W.K., Thonnard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1980, 238, 471 Astrophys. J., 1985, 289, 81	opt
N_1097	Blackman C.P. Hummel E.	Mon. Not. Roy. Astron. Soc., opt 1981, 195, 451 Astrophys. J., 1989, 342, 39	opt
N_1134	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrofizika (Rus), 1988, 28, 243	opt

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N_1140	Hunter D.A., Woerden H.W., Gallagher J.S.	Astrophys. J. Suppl., 1994, 91, 79	opt, rad
N_1156	Esipov V.F., Kyazumov G.A., Jafarov A.R.	Astron. Zh. (Rus), 1991, 68, 909	opt
N_1160	Esipov V.F., Kyazumov G.A., Jafarov A.R.	Astron. Zh. (Rus), 1991, 68, 909	opt
N_1169	Van Driel W., Van Woerden H.	Astron. and Astrophys., 1994, 286, 395	rad
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N_1417	Rubin V.C., Ford W.K., Thonnard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1982, 261, 439 Astrophys. J., 1985, 289, 81	opt
N_1421	Rubin V.C., Ford W.K., Tonnard N.	Astrophys. J., 1980, 238, 471	opt

	Rubin V.C., Burstein D., Ford W.K., Thonnard N.	<i>Astrophys. J.</i> , 1985, 289, 81	opt
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N_2336	Van Moorsel G.A.	Astron. and Astrophys. Suppl., 1983, 54, 19	rad
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N_4144	Allsopp N.J.	Mon. Not. Roy. Astron. Soc., rad 1979, 188, 371	rad
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N_4294	Distefano A., Rampazzo R., Chincarini G., de Souza R.	Astron. and Astrophys. Suppl., 1990, 86, 7	opt
N_4298	Sperandio M., Chincarini G., Rampazzo R., de Souza R.	Astron. and Astrophys. Suppl., 1995, 110, 279	opt
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N_4696c	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
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N_4698	Krumm N., Salpeter E.E. Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1979, 228, 64 Astrophys. J., 1985, 289, 81	rad
N_4713	Sperandio M., Chincarini G., Rampazzo R., de Souza R.	Astron. and Astrophys. Suppl., 1995, 110, 279	opt
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N_5930	Lewis J.R., Bowen D.V.	Mon. Not. Roy. Astron. Soc., 1993, 264, 818	opt
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N_6054	Rubin V.C., Whitmore B.C., Ford W.K.	Astrophys. J., 1988, 333, 522	opt
N_6070	Esipov V.F., Strigachev A.A.	Astron. Tsirk., 1990, No. 1544, 1	opt
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N_6118	Meyssonnier N.	Astron. and Astrophys. Suppl., 1984, 58, 351	opt
	Burbidge E.M., Burbidge G.R., Prendergast K.H.	Astrophys. J., 1965, 142, 641	opt
N_6181	Kyazumov G.A., Barabanov A.V.	Pis'ma v Astron. Zh., 1980, 6, 329	opt

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N_6207	Carozzi N.	Astron. and Astrophys., 1976, 49, 431	opt
N_6285	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
N_6300	Buta R.	Astrophys. J. Suppl., 1988, 64, 383	opt
N_6314	Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1985, 289, 81	opt
N_6340	Bottema R.	Astron. and Astrophys., 1989, 221, 236	opt
N_6384	Sperandio M., Chincarini G., Rampazzo R., de Souza R.	Astron. and Astrophys. Suppl., 1995, 110, 279	opt
N_6438	Burbidge E.M., Burbidge G.R., Prendergast K.H.	Astrophys. J., 1972, 171, 253	opt
N_6500	Van Driel W., Davies R.D., Appleton P.N.	Astron. and Astrophys., 1988, 199, 41	rad
N_6503	Burbidge E.M., Burbidge G.R., Crampin D.J., Rubin V.C.	Astrophys. J., 1964, 139, 539	opt
	Goad J.W., Roberts M.S.	Astron. and Astrophys., 1981, 250, 79	opt
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	De Vaucouleurs G., Caulet A.	Astrophys. J. Suppl., 1982, 49, 515	opt
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	Wevers B.M.H.R., Van der Kruit P.C., Allen R.J.	Astron. and Astrophys. Suppl., 1986, 66, 505	rad
	Bottema R.	Astron. and Astrophys., 1989, 221, 236	opt
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	Begeman K.G., Broelis A.H., Sanders R.H.	Mon. Not. Roy. Astron. Soc., 1991, 249, 523	rad
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N_6621	Reshetnikov V.P., Sil'chenko O.K.	Astrofizika (Rus), 1991, 33, 157	opt

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	Rubin V.C., Graham J.A.	Astrophys. J., 1987, 316, L67	opt
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N_6764	Rubin V.C., Thonard N. Ford W.K.	Astrophys. J., 1975, 199, 31	opt
N_6814	Schulz H., Knake A., Schmidt-Kaler Th.	Astron. and Astrophys., 1967, 150, 9	rad
N_6875a	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
N_6946	Rogstad D.H., Rougoor G.W., Whiteoak J.B.	Astrophys. J., 1967, 150, 9	rad
	Bonnarel F., Boulesteix J., Georgelin Y.P., Le Coarer E., <i>et al.</i>	Astron. and Astrophys., 1988, 189, 59	opt
	Gordon K.J., Remage N.H., Roberts M.S.	Astrophys. J., 1968, 154, 845	rad
	Rogstad D.H., Shostak G.S.	Astron. and Astrophys., 1972, 176, 315	rad
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	Young J.S., Scoville N.	Astrophys. J., 1982, 258, 467	rad
	Beckman J.E., Muoz Tunon C., Battaner E., Prieto M., <i>et al.</i>	Astron. and Astrophys., 1986, 161, 55	opt
	Tacconi L.J., Young J.S.	Astrophys. J., 1986, 308, 600	rad
	Weliachew L., Casoli F., Combes F.	Astron. and Astrophys., 1988, 199, 29	rad
N_7013	Knapp G.R., Van Driel W., Schwarz U., Van Woerden H., Gallagher J.S.	Astron. and Astrophys., 1984, 133, 127	rad
	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrofizika (Rus), 1988, 29, 155	opt
N_7083	Rubin V.C., Ford W.K. Thonard N.	Astrophys. J., 1982, 261, 439	opt
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N_7137	Ford W.K., Thonnard N. Esipov V.F., Strigachev A.A.	289, 81 Astron. Tsirk., 1989, No. 1538, 1	opt
N_7171	Rubin V.C., Ford W.K. Thonnard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N. Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrophys. J., 1982, 261, 439 Astrophys. J., 1985, 289, 81 Astron. J. (Rus), 1992, 69, 19	opt opt
N_7217	Peterson C.J., Rubin V.C., Ford W.K., Roberts M.S. Kyazumov G.A., Barabanov A.V. Kyazumov G.A., Barabanov A.V. Merrifield M.R., Kuijken K.	Astrophys. J., 1978, 226, 770 Pis'ma v Astron. Zh., 1980, 6, 181 Pis'ma v Astron. Zh., 1981, 7, 149 Astrophys. J., 1994, 432, 575	opt opt
	Werdes-Montenegro L., Bosma A., Athanassoula E.	Astron. and Astrophys., 1995, 300, 65	rad
N_7292	Esipov V.F., Kyazumov G.A. Jafarov A.R.	Astron. J. (Rus), 1991, 68, 909	opt
N_7314	Schulz H., Knake A., Schmidt-Kaler Th.	Astron. and Astrophys., 1994, 288, 425	opt
N_7331	Burbidge E.M., Burbidge G.R., Crampin D.J. <i>et al.</i> Hua C.T., Donas J., Doan N.H. Amram P.	Astrophys. J., 1965, 141, 759 Astron. and Astrophys., 1980, 90, 8 Rapport de stage du D.E.A., Univ. et Obs. de Marseille, 1986	opt opt
	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K. Bosma A.	Astrofizika (Rus), 1988, 29, 155 Astron. J., 1988, 86, 1791	opt rad
	Begeman K.G., Broelis A.H., Sanders R.H.	Mon. Not. Roy. Astron. Soc., 1991, 249, 523	rad
	Marcelin M., Petrosian A.R., Amram P., Boulesteix J.	Astron. and Astrophys., 1994, 282, 363	opt
N_7332	Morton D.C., Chevalier R.A.	Astrophys. J., 1972, 174, 489	opt
N_7339	Kyazumov G.A., Barabanov A.V.	Pis'ma v Astron. Zh., 1980, 6, 687	opt
N_7469	Burbidge E.M., Burbidge G.R., Prendergast K.H. Anderson K.S.	Astrophys. J., 1963, 137, 1022 Astrophys. J., 1973, 182, 369	opt opt

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N_7479	Burbidge E.M., Burbidge G.R., Prendergast K.H. Hua C.T., Donas J., Doan N.H. Duval M.F., Monet G.O.	Astrophys. J., 1960, 132, 654 Astron. and Astrophys., 1980, 90, 8 Astron. and Astrophys. Suppl., 1985, 61, 141	opt
N_7531	Buta R.	Astrophys. J. Suppl., 1988, 64, 383 Astron. and Astrophys. Suppl., 1992, 94, 175	opt
N_7537	Amram P., Le Coarer E., Marselin M., Balkowski C., Sullivan W.T., Cayatte V. Kyazumov G.A.	Pis'ma v Astron. Zh., 1980, 6, 687 Astrophys. J., 1982, 261, 439 Astrophys. J., 1985, 289, 81 Astrophys. J., 1980, 238, 471 Astrophys. J., 1985, 289, 81 Pis'ma v Astron. Zh., 1980, 6, 398	opt
N_7541	Rubin V.C., Ford W.K. Thonard N. Rubin V.C., Ford W.K. Thonard N. Rubin V.C., Ford W.K. Thonard N. Rubin V.C., Burstein D., Ford W.K., Thonnard N. Kyazumov G.A.	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1992, 94, 175	opt
N_7591	Rubin V.C., Whitmore B.C., Ford W.K.	Astrophys. J., 1982, 261, 439	opt
N_7593	Amram P., Le Coarer E., Marselin M., Balkowski C., Sullivan W.T., Cayatte V.	Astrophys. J., 1985, 289, 81	opt
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N_7619	Whitmore B.C.	Astrophys. J., 1969, 157, 69	opt
N_7625	Demoulin M.N.	Astrophys. J., 1988, 333, 522	opt
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N_7714	Demoulin M.H., Burbidge E.M. Burbidge G.R. Afanas'ev V.L., Rassokhin S.S	Astrophys. J., 1968, 153, 31 Pis'ma v Astron. Zh., 1982, 8, 1	opt opt
N_7721	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astron. J. (Rus), 1992, 69, 19	opt
N_7741	Duval M.F., Monet G.O.	Astron. and Astrophys. Suppl., 1985, 61, 141	opt
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N_7793	Carranza G.J., Aguero E. Davoust E., De Vaucouleurs G. Carignan C., Puche D.	Astrophys. and Sp. Sci., 1977, 47, 397 Astrophys. J., 1980, 242, 30 Astron. J., 1990, 100, 394	opt opt rad
N_7814	Kormendy J., Illingworth G.	Astrophys. J., 1982, 256, 460	opt
N_7817	Karachentsev I.D.	Pis'ma v Astron. Zh., 1984, 10, 253	opt
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ARP_0295 a/b	Goad J.W., Roberts M.S. Stockton A.	Astrophys. J., 1974, 190, L47	opt
DC 40 (1842–6312)	Amram P., Boulesteux J., Marcelin M., <i>et al.</i> Rubin V.C., Whitmore B.C., Ford W.K.	Astron. and Astrophys. Suppl., 1995, 113, 35 Astrophys. J., 1988, 333, 522	opt opt
DDO_0050	Rogstad D.H., Rougoor G.W., Whiteoak J.B.	Astrophys. J., 1967, 150, 9	rad
DDO_0053	Arkhipova V.P., Noskova R.I., Sil'chenko O.K., Zasov A.V.	Pis'ma v Astron. Zh., 1987, 13, 575	opt
DDO_0063	Tully R.B., Bottinelli L.,	Astron. and Astrophys.,	rad

	Fisher J.R. <i>et al.</i>	1978, 63, 37
DDO_0069	Allsopp N.J.	Mon. Not. Roy. Astron. rad Soc., 1978, 184, 397
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DDO_0125	Tully R.B., Bottinelli L., Fisher J.R. <i>et al.</i>	Astron. and Astrophys., rad 1978, 63, 37
DDO_0133	Allsopp N.J.	Mon. Not. Roy. Astron. rad Soc., 1978, 184, 397
DDO_0154	Carignan C.  Begeman K.G., Broelis A.H., Sanders R.H. Carignan C.	Astrophys. J., 1988, opt 332, L33  Mon. Not. Roy. Astron. rad Soc., 1991, 249, 523 Astrophys. J., 1989, rad 347, 760
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E_216_G_20	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_263_G_14	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_264_G_36	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_264_G_57	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_267_G_29	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_267_G_30	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_268_G_37	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_268_G_44	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_317_G_41	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_318_G_04	Schommer R.A., Bothun G.D.,	Astron. J., 1993, opt

	Williams T.B., Mould J.R.	105, 97
E_319_G_22	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_322_G_19	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_322_G_42	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_322_G_44	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_322_G_45	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_322_G_76	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_323_G_25	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_323_G_27	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_323_G_39	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_323_G_42	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_381_G_51	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_381_G_05	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_382_G_06	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_382_G_58	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_383_G_02	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_383_G_88	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_04	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_14	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_30	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_34	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_54	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
E_437_G_56	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97

E_438_G_08	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_438_G_18	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_439_G_20	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_441_G_22	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_444_G_21	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_444_G_47	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_444_G_86	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_445_G_15	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_445_G_35	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_445_G_57	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_445_G_58	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_445_G_81	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_446_G_01	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_446_G_17	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_501_G_01	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_501_G_68	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_501_G_86	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_509_G_91	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
E_510_G_11	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
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IC_0065	Van Moorsel G.A.	Astron. and Astrophys. Suppl., 1983, 54, 1	rad
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IC_2560	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, opt 105, 97
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IC_4319	Schommer R.A., Bothun G.D., Williams T.B., Mould J.R.	Astron. J., 1993, 105, 97	opt
IC_4741	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Boulesteux J., Marcelin M., <i>et al.</i>	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1995, 113, 35	opt
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IC_4764	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Boulesteux J., Marcelin M., <i>et al.</i>	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1995, 113, 35	opt
IC_4767	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Boulesteux J., Marcelin M., <i>et al.</i>	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1995, 113, 35	opt
IC_4769	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Boulesteux J., Marcelin M., <i>et al.</i>	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1995, 113, 35	opt
IC_4770	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Boulesteux J., Marcelin M., <i>et al.</i>	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1995, 113, 35	opt
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IG_0112	Karachentsev I.D., Mineva V.A.	Pis'ma v Astron. Zh., 1984, opt 10, 253
IG_0162	Karachentsev I.D., Mineva V.A.	Pis'ma v Astron. Zh., 1984, opt 10, 253
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IG_0323	Karachentsev I.D., Mineva V.A.	Pis'ma v Astron. Zh., 1984, opt 10, 253
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IG_0524	Karachentsev I.D., Mineva V.A.	Pis'ma v Astron. Zh., 1984, opt 10, 253
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U_00725	Van Moorsel G.A.	Astron. Astrophys. Suppl., 1983, 54, 19	rad
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U_05101	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
U_05119	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
U_05588	Mineva V.M.	Pis'ma v Astron. Zh., 1985, 11, 811	opt
U_05600	Rubin V.C., Whitmore B.C., Ford W.K. Amram P., Le Coarer E., Marselin M., Balkowski C., Sullivan W.T., Cayatte V. Reshetnikov V.P., Combes F.	Astrophys. J., 1988, 333, 522 Astron. and Astrophys. Suppl., 1992, 94, 175	opt
U_05688	Mineva V.M.	Astron. and Astrophys., 1994, 291, 57 Pis'ma v Astron. Zh., 1985, 11, 811	opt
U_05750	Van der Hulst J.	Astron. J., 1993, 106, 548	rad

U_05990	Van der Hulst J.	Astron. J., 1993, 106, 548	rad
U_06497	Karachentsev I.D.	Pis'ma v Astron. Zh., 1991, opt 17, 485	
U_06528	Van Moorsel G.A.	Astron. Astrophys. Suppl., rad 1983, 54, 19	
U_06614	Van der Hulst J.	Astron. J., 1993, 106, 548	rad
U_06922	Van der Hulst J.	Astron. J., 1993, 106, 548	rad
U_07170	Goad J.W., Roberts M.S.	Astrophys. J., 1981, 250, 79	opt
U_07175	Liszt H.	Astron. J., 1992, 104, 363	rad
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U_07576	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
U_07695	Sperandio M., Chincarini G., Rampazzo R., de Souza R.	Astron. and Astrophys. Suppl., 1995, 110, 279	opt
U_07906	Skillman E.D., Bothun G.D., Murray M.A., Warmels B.H.	Astron. and Astrophys., 1987, 185, 67	rad
U_09242	Goad J.W., Roberts M.S.	Astrophys. J., 1981, 250, 79	opt
U_09562	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
U_09796	Reshetnikov V.P., Combes F.	Astron. and Astrophys., 1994, 291, 57	opt
U_10085	Amram P., Le Coarer E., Marselin M., Balkowski C., Sullivan W.T., Cayatte V.	Astron. and Astrophys. Suppl., 1992, 94, 175	opt
U_10205	Rubin V.C., Burstein D., Ford W.K., Thonnard N.	Astrophys. J., 1985, 289, 81	opt
U_11132	Karachentsev I.D.	Pis'ma v Astron. Zh., 1991, opt 17, 485	
U_11230	Karachentsev I.D.	Pis'ma v Astron. Zh., 1991, opt 17, 485	
U_11810	Rubin V.C., Ford W.K., Thonnard N.	Astrophys. J., 1982, 261, 439	opt
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U_11964	Karachentsev I.D.	Pis'ma v Astron. Zh., 1991, opt 17, 485	
U_11973	Afanas'ev V.L., Burenkov A.N., Zasov A.V., Sil'chenko O.K.	Astrofizika (Rus), 1988, 29, 155	opt

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U_12498	Rubin V.C., Whitmore B.C., Ford W.K.	Astrophys. J., 1988, 333, 522	opt
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