

TABLE 1
THE WIYN SAMPLE

Galaxy	Type (RC3)	R_{25} (")	z (km s ⁻¹)	D (Mpc)	Nucleus
NGC 718	SAB(s)a	71	1733	22.7	L2
NGC 936	SB(rs)0 ⁺	140	1430	23.0 ^a	abs.
NGC 1022	(R')SB(s)a	72	1453	18.5	SB ^c
NGC 2273	(R')SB(s)a	97	1840	27.3	S2
NGC 2655	SAB(s)0/a	147	1404	22.1	S2
NGC 2681	(R')SAB(rs)0/a	109	692	17.2 ^a	L1.9
NGC 2685	(R)SB0 ⁺ pec	134	883	14.4	S2/T2:
NGC 2787	SB(r)0 ⁺	95	696	7.5 ^a	L1.9
NGC 2859	(R)SB(r)0 ⁺	128	1687	24.2	T2:
NGC 2880	SB0 ⁻	62	1551	21.9 ^a	abs. ^d
NGC 2950	SB(r)0 ⁰	80	1337	14.9 ^a	abs.
NGC 2962	(R)SAB(rs)0 ⁺	79	1966	30.0 ^e	...
NGC 3032	SAB(rs)0 ⁰	60	1533	22.0 ^a	H II ^f
NGC 3185	(R)SB(r)a	71	1218	17.1	S2:
NGC 3412	SB(s)0 ⁰	109	865	11.3 ^a	abs.
NGC 3489	SAB(rs)0 ⁺	106	708	12.1 ^a	T2/S2
IC 676	(R)SB(r)0 ⁺	74	1290	19.0	SB ^g
NGC 3729	SB(r)a pec	85	1024	16.4	H II
NGC 3941	SB(s)0 ⁰	104	928	12.2 ^a	S2:
NGC 3945	(R)SB(rs)0 ⁺	157	1220	19.3	L2
NGC 4045	SAB(r)a	81	1981	26.3	...
NGC 4143	SAB(s)0 ⁰	69	985	15.9 ^a	L1.9
NGC 4203	SAB0 ⁻ :	102	1086	15.1 ^a	L1.9
NGC 4245	SB(r)0/a:	87	890	12.0 ^b	H II
NGC 4310	(R')SAB0 ⁺ ?	64	913	12.0 ^b	...
NGC 4314	SB(rs)a:	125	963	12.0 ^b	L2
NGC 4386	SAB0 ⁰ :	74	1677	27.0 ^a	...
NGC 4643	SB(rs)0/a	93	1319	17.8	T2
NGC 4665	SB(s)0/a	114	785	10.4	abs.
NGC 4691	(R)SB(s)0/a pec	85	1110	14.6	H II ^h
NGC 5338	SB0:	76	816	12.8 ^a	...
NGC 5377	(R)SB(s)a	112	1793	26.7	L2
NGC 5701	(R)SB(rs)0/a	128	1505	20.9	T2:
NGC 5750	SB(r)0/a	91	1687	26.2	L/S2 ⁱ
NGC 6654	(R')SB(s)0/a	79	1821	28.2	abs.
UGC 11920	SB0/a	72	1145	18.5	...
NGC 7280	(R)SAB(r)0 ⁺	66	1844	24.3 ^a	...
NGC 7743	(R)SB(s)0 ⁺	91	1710	20.7 ^a	S2

Note. — R_{25} is one-half of D_{25} , from RC3; heliocentric redshift z is from NED; distance D is from LEDA (redshift, corrected for Virgo-centric infall, + $H_0 = 75$ km s⁻¹ Mpc⁻¹), except as noted. Nuclear classifications are from Ho, Filippenko, & Sargent (1997b), unless otherwise indicated: L = LINER, S = Seyfert, T = transition between LINER and H II, H II = H II region, SB = starburst, "abs." = absorption lines only. Uncertain classifications are indicated by a trailing colon.

^aTonry et al. (2001)

^bForbes (1996)

^cAshby, Houck, & Matthews (1995).

^dspectra of Munn (1992) show no emission.

^eAjhar et al. (2001)

^fVéron-Cetty & Véron (1986)

^gContini, Considerere, & Davoust (1998)

^hChromey (1974), García-Barreto et al. (1995)

ⁱVéron-Cetty & Véron (1986)

TABLE 5
OBSERVED STRUCTURES

Galaxy	i °	Rot.	Notes	Structure	Size "	PA °	ϵ_{\max}
NGC 718	30	+	DB, NR	Outer Disk	71	5	0.13
				Bar 1	20–30	152 (158)	0.23
				NR(B)	~ 3.3	~ 50	~ 0.15
				Bar 2	1.6–3.6	~ 15	0.19
NGC 936	41	-?	NR	Outer Disk	140	130	0.24
				Bar	41–51	78 (81)	0.47
				NR(S)	~ 8	~ 130	~ 0.23
NGC 1022	$\lesssim 24$	+	dusty	Outer Disk	72	~ 174	0.08
				Inner Ring	~ 30	~ 60	0.16
				Bar	19–22	~ 115	0.51
NGC 2273	50	+	NS, NR	[Outer Disk]	97	50	~ 0.34
				Outer Ring	145	50	0.45
				Bar	14–17	116 (109)	0.43
				NR(SF)	2.2	~ 30	0.47
NGC 2655	26	-?	dusty, OPG	Outer Disk	147	~ 95	0.10
				Bar(?)	8.7–63	90	0.35
NGC 2681	~ 18	-	DB, NR	Outer Disk	109	140	0.05
				Bar 1	50–60	30	0.23
				NR(B)	18	—	0.0
				Bar 2	18–19	73	0.33
				Bar 3	1.7–3.3	20	0.26
NGC 2685	... ^a	...	ID, OPG	[Outer Disk]	134	38	~ 0.54
				Outer Ring	155	25	0.50
				Bar?	33–54	38	0.61
				Disk	1.8–3.7	35	0.61
NGC 2787	55	+	dusty, ID, OPG	Outer Disk	95	109	0.41
				Bar	29–36	160 (150)	0.34
				Disk	18–21	113	0.34
NGC 2859	~ 25	+	DB, NR	[Outer Disk]	128	~ 90	~ 0.1
				Outer Ring	120	83	0.23
				Bar 1	34–43	162	0.40
				NR(R)	7.0	~ 60	~ 0.2
				Bar 2	4.1–6.2	62	0.31
NGC 2880	52	-?	ID	Outer Disk	62	144	0.37
				Bar	8.0–9.0	82 (105)	0.20
				Disk	3.0–4.5	138	0.22
NGC 2950	48	+	DB, NR	Outer Disk	80	120	0.32
				Bar 1	24–31	162 (155)	0.43
				NR(S)	~ 4.2	~ 120	~ 0.3
				Bar 2	3.2–3.9	85 (92)	0.36
NGC 2962	51	-	DB	Outer Disk	79	10	0.35
				Bar 1	29–43	168 (174)	0.30
				Bar 2	3.5–4.2	93 (10)	0.03
NGC 3032	30	-	NS	Outer Disk	60	95	0.13
				Bar?	7.9–11	97	0.20
NGC 3185	48	+	dusty	Outer Disk	71	140	0.31
				Inner Ring	39	125	0.62
				Bar	31–32	114	0.58
				NR(R)?	~ 4	~ 140	~ 0.3
NGC 3412	52	...	ID	Outer Disk	109	153	0.37
				Bar	15–21	100 (115)	0.26
				Disk	1.0–6.1	154	0.33

TABLE 5—*Continued*

Galaxy	i °	Rot.	Notes	Structure	Size "	PA °	e_{\max}
NGC 3489	56	+?	dusty, NR	Outer Disk	106	71	0.42
				Outer Ring	51	71	0.51
				Bar?	~ 10	~ 20 (~ 55)	~ 0.17
				NR(R)	3.2	~ 60	~ 0.7
IC 676	44	-?	dusty	Outer Disk	74	15	0.27
				Outer Ring	55	8	0.32
				Bar	13–34	164	0.72
NGC 3729	~ 50	+	dusty	Outer Disk	85	~ 170	~ 0.35
				Inner Ring	51	167	0.50
				Bar	23–26	26	0.66
NGC 3941	51	+?	DB, OPG	Outer Disk	104	10	~ 0.35
				Bar 1	21–32	166 (176)	0.47
				Bar 2	3.2–4.4	35 (20)	0.21
NGC 3945	~ 50	-?	DB, NR, ID	[Outer Disk]	157	158	~ 0.35
				Outer Ring	150	160	0.47
				Bar 1	32–39	72 (75)	0.29
				Disk	10–18	158	0.36
				NR(S)	6.5	158	~ 0.57
				Bar 2	2.6–3.0	90 (115)	0.11
NGC 4045	48	+	dusty	Outer Disk	81	90	0.32
				Outer Ring	66	90	0.39
				Bar	18–20	~ 18	0.30
NGC 4143	59	+	NS, ID	Outer Disk	69	144	0.46
				Bar	17–28	163 (156)	~ 0.38
				Disk	4.2–6.2	142	0.25
NGC 4203	34	+	OPG	Outer Disk	102	10	0.17
				Bar	13–46	9	0.24
NGC 4245	40	+	NS, NR	Outer Disk	87	~ 0	0.25
				Bar	37–42	137	0.48
				NR(SF)	4.2	~ 145	~ 0.15
NGC 4310	62	...	dusty	Outer Disk	64	159	0.5
				Bar?	13–28	161	0.63
NGC 4314	25	+	DB, NR, NS	Outer Disk	125	65	0.09
				Bar 1	70–113	146	0.65
				NR(SF)	~ 6.8	~ 135	~ 0.24
				Bar 2	4.5–5.6	136	0.23
NGC 4386	48	...	ID	Outer Disk	74	140	0.31
				Bar	25–36	134	0.52
				Disk	2.4–3.2	141	0.28
NGC 4643	38	+?	NS, ID	Outer Disk	93	55	0.20
				Bar	50–62	133	0.45
				Disk	3.5–5.4	53	0.10
NGC 4665	33	+		Outer Disk	114	120	0.15
				Bar	45–65	4	0.51
NGC 4691	42	...	dusty	Outer Disk	85	30	0.24
				Bar	30–55	82	0.64
NGC 5338	68	...	dusty	Outer Disk	76	95	0.58
				Bar	11–15	125	0.46

TABLE 5—*Continued*

Galaxy	i °	Rot.	Notes	Structure	Size "	PA °	e_{\max}
NGC 5377	~ 55	—	NS, NR	[Outer Disk]	111	~ 35	~ 0.4
				Outer Ring	150	27	0.47
				Inner Ring	~ 70	43	0.64
				Bar	58–78	45	0.66
				NR(R)	6.5	~ 30	~ 0.45
				NR(B)	~ 3	~ 30	0.41
NGC 5701	~ 20	—	NS	[Outer Disk]	128	~ 45	~ 0.05
				Outer Ring	~ 125	78	0.20
				Bar	40–58	177	0.43
NGC 5750	62	—	dusty	Outer Disk	91	65	0.50
				Bar	20–24	121	0.37
NGC 6654	44	—	DB	Outer Disk	79	0	0.27
				Bar 1	26–38	17	0.51
				Bar 2	2.7–4.2	135 (160)	0.15
UGC 11920	52	—	dusty	Outer Disk	72	50	0.36
				Bar	26–39	45	0.51
				Bar 2?	2.5–3.3	0 (17)	0.19
NGC 7280	49	+?	DB, OPG	Outer Disk	66	73	0.33
				Bar 1	11–27	55 (63)	0.40
				Bar 2	1.2–1.6	115 (101)	0.30
NGC 7743	28	—	NS	Outer Disk	91	105	0.11
				Bar 1	31–58	96	0.51

Note. — For each galaxy, we give disk inclination and rotation, along with a summary of notable features: DB = double barred; ID = inner disk (possible secondary bar); NR = nuclear ring; NS = nuclear spiral; OPG = evidence for off-plane gas or dust, dusty = too dust-obscured to determine presence or absence of central structures. Derivation of disk inclination i is described in the text. Rotation (+ = counter-clockwise, – = clockwise, ... = unknown) assumes that spiral arms trail, if any can be seen. “Size” is the radial extent of a feature in arc seconds, either semi-major axis or (for outer disks) R_{25} . “[Outer Disk]” indicates that a distinct outer disk cannot be identified; we list R_{25} and best estimates for overall disk orientation.

^aNo reliable inclination can be determined for this galaxy.