YOUR TITLE HERE IN ALL CAPS

FIRST M LAST

Dissertation submitted in partial fulfillment
of the requirements for the degree of
Doctor of Philosophy

BOSTON
UNIVERSITY

Approved by

First Reader

First M. Reader, PhD
Professor of Astronomy
University of First Reader

Second Reader

Second M. Reader, PhD
Professor of Astronomy
University of Second Reader

Third Reader

Third M. Reader, PhD
Title of Third Reader
University of Third Reader

Acknowledgments

Some acknowledgements here

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(Order No.)

FIRST M LAST

Boston University, Graduate School of Arts and Sciences, YYYY

Major Professor: First M. Reader, Professor of Astronomy.

ABSTRACT

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List of Abbreviations

OAH	Other Acronyms Here	1
SDSS	Sloan Digital Sky Survey	1
SN	Supernova	1
TLA	Three Letter Acronym	1
TWAA	TLA Within Another Acronym	1

Chapter 1

Chapter title

Example reference to Section 1.1. Example reference to Figure 1.1. Example reference to Equation 1.1. Example reference to better Equation 1.2. Example reference to Table 1.1. Example reference to Table 1.2. Example parenthetical citation: (e.g Gosling, 1993, for example). Example textual citation to Gosling (1993). Example call of a Three Letter Acronym (TLA). Additionally, Other Acronyms Here (OAH). If you are referring to plural TLAs, it can also be done, and the glossary package will simply add an 's' to the end of the acronym. If you have something trickier, that can also be done. For example, if you have two Supernovae (SNe), as long as you define it in the main thesis.tex file, it comes out with the correct first usage plural. And if we want to refer to it again, we can (like here: SNe) and it will be plural (or it can be singular as well: SN). Here is an example of using a TLA Within Another Acronym (TWAA). Further uses look like TWAA. And using a symbol as an acronym can also be done, for example Sloan Digital Sky Survey (*SDSS*). I want *SDSS* to be italicized and I always forget, so I made it a command. Further information about the Glossaries package can be found at `http://www.math.washington.edu/tex-archive/macros/latex/contrib/glossaries/glossar` or at the CTAN site: `http://ctan.org/tex-archive/macros/latex/contrib/glossaries` where you can download and install the package. Also, that was an example of using the hyperref package and the url tag. As we can see, the hyperref package doesn't always play nice with the margins of the document. I highly recommend checking every hyperref call you make at some point. When you print, the boxes don't show up, but it won't help with the page format. Setting breaklinks=True doesn't seem to help. So if you have this issue in your dissertation, I would recommend turning off the hyperref package. Hopefully that will help. Otherwise, take a look at the hyperref documentation.

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1.1 Second Section

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1.1.1 Subsection

Subsubsection

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$$R_L = \frac{mv_\perp}{qB} \tag{1.1}$$

Of course, I have to add my own equation, because the above equation doesn't pertain to me. The velocity dispersion of a galaxy cluster is defined as:

$$\sigma_r = \langle (v_r - \langle v_r \rangle)^2 \rangle^{1/2} \tag{1.2}$$

which only holds as long as the distribution is Gaussian, i.e.:

$$p\left(v_r\right) dv_r = \frac{1}{\sigma_r \sqrt[2]{2\pi}} e^{\frac{-(v_r - \langle v_r \rangle)^2}{2\sigma_r^2}} dv_r \tag{1.3}$$

where $p\left(v_r\right) dv_r$ is the probability that the velocity falls between v_r and $v_r + dv_r$. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent nec velit magna. In vehicula accumsan blandit. Duis vestibulum eros et ante posuere et pharetra nibh

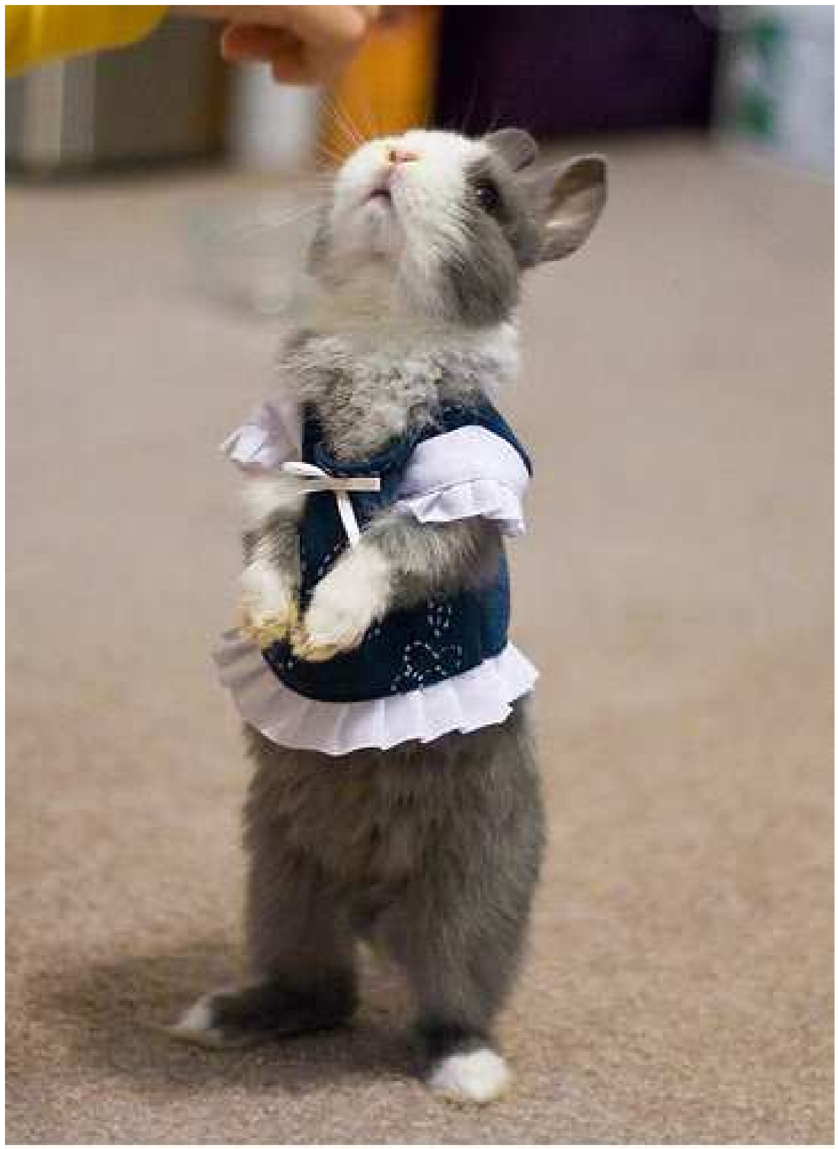

Fig. 1.1 Caption to be shown under the figure here

dapibus. Pellentesque quis nibh vestibulum urna fermentum convallis. Duis ultricies felis eget orci sodales sed varius ante facilisis. Vivamus nec lorem nulla. Donec id quam id arcu fringilla euismod. Etiam ullamcorper posuere ipsum, vel egestas ipsum bibendum faucibus. Proin volutpat dolor vel nulla egestas in ultricies mi pellentesque. Vivamus ut nulla ligula.

Here is an example of a deluxetable (Table 1.1). You can use deluxetable as long as you don't use the array package in the main thesis.tex file. The choice is yours. This is a very intricate deluxetable, with both numerical and alphabetical references. There are also tablecomments in addition to the table caption. The only issue with deluxetable is that if the table spans multiple pages, each page of the table gets added to the list of tables as a separate entry with the same name. This doesn't particularly bother me, but if it bothers you, the other option is to use longtable. An example longtable (provided by Susanna Finn) is shown below.

This is an example of the longtable table format in action (Table 1.2). There are lots of cool things it can do (except for mix alphabetical and numerical footnotes or do tablecomments), and I highly suggest reading up on it if you have further questions. Some relevant information is found at: `http://www2.astro.psu.edu/gradinfo/psuthesis/longtable.html` and at: `http://texblog.org/2011/05/15/multi-page-tables-using-longtable/`.

Table 1.1. Sources located in rich cluster environments

Source Name	Smpl[1]	α	δ	m_r (mag)	M_r (mag)	S (mJy)	Angle (deg)	$P_{1440\ \mathrm{MHz}}$ (W Hz^{-1})	FR[2]	FR[3]	z	$\mathrm{N}_{1.0}^{-19}$	f_c
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
J002859.3+002000	S	00:28:59.38	+00:20:00.6	17.12	−23.40	19.8	169.5	2.77e+24	I	I	0.222[a]	61	1.00
J005625.7−011543	V	00:56:25.70	−01:15:43.0	13.36	−24.48	515.3	85.0	7.60e+24	I	I	0.078[b]	52	1.00
J005702.0−005230	A	00:57:02.07	−00:52:30.7	13.41	−23.11	72.5	147.2	3.29e+23	I	I	0.044[a]	53	1.00
J005702.1−005231	V	00:57:02.10	−00:52:31.0	13.41	−23.11	72.5	147.0	3.29e+23	I	I	0.044[a]	53	1.00
J010242.5−005032	V	01:02:42.50	−00:50:32.0	17.46	−23.54	66.5	87.0	1.33e+25	I	I	0.261[b]	64	1.00
J010456.5+000423	V	01:04:56.50	+00:04:23.0	18.26	−23.26	83.4	8.0	2.50e+25	I	I	0.312[b]	206	1.37
J011403.1−011058	V	01:14:03.10	−01:10:58.0	16.90	−23.15	16.5	139.0	1.59e+24	I	I	0.187[a]	55	1.00
J011403.1−011057	A	01:14:03.15	−01:10:58.0	16.90	−23.15	16.5	138.9	1.59e+24	I	I	0.187[a]	55	1.00
J011633.3−092753	S	01:16:33.38	−09:27:53.3	18.17	−22.74	22.1	179.2	4.13e+24	I	I	0.253[b]	47	1.00
J013503.8+011325	S	01:35:03.81	+01:13:25.3	18.90	−23.08	20.7	175.9	8.56e+24	I	I	0.359[b]	122	1.91
J022736.7−005253	V	02:27:36.70	−00:52:53.0	20.26	−19.24	69.7	85.0	4.84e+24	II	II?	0.161[b]	49	1.00
J023027.9+010847	A	02:30:27.96	+01:08:47.2	17.45	−23.65	130.9	87.8	2.77e+25	I	I	0.267[a]	103	1.05
J023028.1+010850	V	02:30:28.10	+01:08:50.0	17.45	−23.65	130.9	88.0	2.77e+25	I	I	0.267[a]	108	1.05
J030259.5−001136	V	03:02:59.50	−00:11:36.0	17.29	−22.38	63.8	97.0	4.23e+24	I	I	0.158[a]	49	1.00
J072244.7+302842	S	07:22:44.71	+30:28:42.4	19.38	−22.90	15.8	176.5	7.44e+24	I	I	0.380[b]	106	2.47
J072248.4+412921	A	07:22:48.43	+41:29:21.2	15.60	−22.78	31.7	146.2	7.37e+23	I	I	0.097[b]	42	1.00

Note. — A question mark in Col. 11 represents a dubious visual FR I/II classification. Three successive question marks represent an inability to visually c radio source as either FR I or II.

[1]The sample each source belongs to: V = visual bent sample, A = auto bent sample, and S = straight sample.

[2]FR type determined following Ledlow & Owen (1996).

[3]FR type determined visually.

[a]The redshift comes from a spectroscopic measurement.

[b]The redshift comes from a photometric measurement.

[c]The difference in redshift between the identified Abell cluster (from NED) and the radio cluster is greater than 1500 km s^{-1}.

[d]The Abell cluster does not have a confirmed redshift in NED.

Table 1.2: Fourth Quadrant IRDC Candidates Detected in CS

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G282.28−00.73 (a)	282.29	−0.74	0.39	0.43	5.9	1.7	0.79	8.44	0.29
G287.17−00.38 (a)	287.18	−0.38	0.40	0.22	−21.3	1.2	0.28	8.12	2.51
G291.40−00.19 (a)	291.40	−0.19	0.76	0.57	−6.1	1.6	0.97	8.10	1.37
G293.34−00.85 (a) *	293.35	−0.86	0.42	0.68	−27.6	1.4	1.02	7.80	3.37
G293.34−00.85 (a) *	293.35	−0.86	0.42	0.30	−23.1	0.9	0.30	7.80	3.37
G305.51+00.76 (a)	305.52	0.77	0.36	0.70	−28.1	3.2	2.35	7.38	2.36
G306.57+00.34 (a)	306.58	0.34	0.39	0.13	−45.2	7.3	1.02	6.84	4.57
G306.65−00.21 (a)	306.67	−0.21	0.38	2.01	−27.4	1.0	2.04	7.39	2.22
G306.92−00.05 (a)	306.92	−0.06	0.45	1.05	−28.4	1.4	1.51	7.36	2.30
G308.39−00.18 (a)	308.40	−0.18	0.43	0.32	−25.0	2.0	0.69	7.45	1.94
G309.14−00.16 (a)	309.14	−0.15	0.52	0.46	−45.0	3.8	1.85	6.80	3.70

Table 1.2 – Continued

IRDC Candidate[a] *MSXDC* (1)	Coordinates ℓ° (2)	b° (3)	Peak Contrast (4)	Peak T_A^* K (5)	Velocity $km\ s^{-1}$ (6)	FWHM $km\ s^{-1}$ (7)	Int. Int.[b] $K\,\mathrm{km\,s^{-1}}$ (8)	R_{Gal} [c] kpc (9)	D_{near} [c] kpc (10)
G309.34−00.69 (a)	309.35	−0.71	0.36	0.35	−49.7	4.6	1.71	6.65	4.39
G309.42−00.64 (a)	309.42	−0.64	0.46	0.40	−42.2	3.1	1.32	6.88	3.33
G312.87−00.66 (a)	312.88	−0.66	0.35	0.27	−51.0	2.6	0.74	6.52	3.85
G313.70−00.31 (a) *	313.68	−0.31	0.54	0.22	−39.4	2.3	0.51	6.89	2.76
G313.70−00.31 (a) *	313.68	−0.31	0.54	0.30	−44.1	2.3	0.69	6.73	3.13
G313.70−00.31 (b)	313.70	−0.30	0.53	0.46	−44.2	4.2	2.05	6.73	3.14
G313.70−00.31 (c)	313.74	−0.30	0.44	0.80	−44.3	3.5	2.98	6.72	3.15
G313.79−00.26 (a)	313.80	−0.25	0.40	0.25	−42.5	4.2	1.13	6.78	3.00
G314.25+00.07 (a)	314.26	0.07	0.36	0.44	−51.6	3.1	1.45	6.46	3.77
G314.67+00.21 (a)	314.69	0.21	0.41	0.15	−44.1	4.2	0.65	6.70	3.08
G315.01−00.15 (a)	315.02	−0.16	0.48	0.23	−47.5	2.7	0.66	6.58	3.34
G316.44−00.65 (a)	316.44	−0.66	0.37	0.55	−43.8	3.4	2.00	6.67	2.98
G316.73+00.07 (a)	316.72	0.09	0.56	1.17	−38.5	4.3	5.02	6.85	2.60

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G316.73+00.07 (b)	316.74	0.03	0.45	1.12	−37.8	6.4	7.59	6.87	2.55
G316.73+00.07 (c)	316.72	0.07	0.40	0.98	−38.9	4.1	4.28	6.83	2.63
G317.58+00.08 (a)	317.59	0.09	0.33	0.32	−45.8	3.2	1.08	6.56	3.08
G317.69+00.11 (a)	317.70	0.13	0.47	0.34	−43.1	4.5	1.63	6.65	2.89
G317.69+00.11 (b)	317.71	0.10	0.43	0.35	−43.2	4.5	1.67	6.65	2.90
G318.15−00.32 (a)	318.16	−0.34	0.36	0.41	−42.1	3.0	1.30	6.68	2.81
G318.71−00.78 (a)	318.73	−0.79	0.40	0.31	−49.0	2.5	0.81	6.41	3.28
G318.73+00.65 (a)	318.74	0.65	0.38	0.61	−44.0	2.3	1.45	6.59	2.93
G320.25+00.29 (a)	320.27	0.29	0.42	0.45	−32.1	2.2	1.07	6.99	2.13
G321.71+00.06 (a)	321.72	0.06	0.48	0.74	−32.2	3.0	2.38	6.95	2.14
G321.75+00.03 (a)	321.76	0.03	0.45	1.02	−32.1	3.1	3.31	6.95	2.13
G322.66+00.03 (a)	322.65	0.05	0.36	0.63	−64.3	2.8	1.73	5.71	4.30
G323.50+00.03 (a)	323.50	0.05	0.37	0.54	−67.8	1.9	1.11	5.56	4.53

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G323.71−00.28 (a)	323.72	−0.28	0.51	0.64	−48.9	3.1	2.01	6.22	3.20
G326.18−00.53 (a)	326.16	−0.53	0.39	0.19	−70.9	2.0	0.37	5.32	4.64
G326.37+00.44 (a)	326.42	0.50	0.36	1.00	−42.1	1.9	2.04	6.37	2.79
G326.49+00.87 (a)	326.49	0.88	0.41	0.59	−39.3	4.7	2.96	6.48	2.61
G326.78−00.12 (a)	326.77	−0.13	0.39	0.48	−56.4	4.6	2.35	5.78	3.69
G326.79+00.38 (a) *	326.80	0.39	0.49	0.18	−41.5	2.7	0.52	6.37	2.76
G326.79+00.38 (a) *	326.80	0.39	0.49	0.85	−20.4	2.6	2.33	7.31	1.47
G326.94−00.16 (a) *	326.94	−0.17	0.44	0.23	−63.7	3.3	0.82	5.50	4.16
G326.94−00.16 (a) *	326.94	−0.17	0.44	0.39	−45.5	2.7	1.14	6.20	3.01
G326.95+00.56 (a)	326.96	0.58	0.42	0.41	−42.1	1.9	0.82	6.34	2.80
G326.98−00.02 (a)	326.98	−0.03	0.39	0.20	−55.8	13.1	2.80	5.79	3.66
G327.20+00.25 (a)	327.22	0.26	0.36	0.32	−52.4	2.6	0.83	5.90	3.45
G327.24−00.31 (a)	327.21	−0.22	0.33	0.17	−60.0	7.3	1.23	5.62	3.92

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G327.41−00.73 (a)	327.39	−0.74	0.42	0.51	−37.2	3.0	1.60	6.53	2.50
G327.88−00.55 (a) *	327.86	−0.58	0.39	0.32	−46.8	3.1	1.05	6.09	3.11
G327.88−00.55 (a) *	327.86	−0.58	0.39	0.38	−66.6	4.4	1.75	5.35	4.34
G327.93+00.45 (a)	327.90	0.43	0.44	0.28	−45.6	2.9	0.84	6.14	3.04
G327.98−00.70 (a)	327.99	−0.71	0.36	0.33	−40.9	3.4	1.18	6.34	2.75
G328.03−00.48 (a)	328.05	−0.47	0.37	0.45	−47.1	2.3	1.09	6.07	3.13
G328.06−00.28 (a)	328.09	−0.32	0.38	0.34	−43.2	3.9	1.42	6.23	2.89
G328.13−00.42 (a)	328.13	−0.43	0.39	0.53	−44.2	3.0	1.67	6.19	2.95
G328.20−00.35 (a)	328.25	−0.41	0.47	1.00	−37.9	2.5	2.62	6.46	2.56
G328.25−00.51 (a)	328.25	−0.52	0.50	3.00	−45.2	5.8	18.52	6.14	3.02
G328.80+00.64 (a) *	328.79	0.62	0.43	0.29	−103.0	3.4	1.03	4.40	7.27
G328.80+00.64 (a) *	328.79	0.62	0.43	1.63	−41.7	2.9	5.01	6.26	2.82
G329.02−00.21 (a)	329.03	−0.20	0.50	1.50	−43.7	8.0	12.77	6.17	2.94

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G329.06−00.30 (a)	329.05	−0.31	0.46	0.68	−43.9	6.4	4.62	6.15	2.96
G329.41−00.73 (a)	329.40	−0.74	0.37	0.25	−37.1	0.9	0.25	6.44	2.54
G329.65−00.38 (a)	329.66	−0.42	0.46	0.26	−33.5	1.3	0.35	6.60	2.32
G329.67+00.85 (a)	329.67	0.82	0.47	0.20	−48.5	3.5	0.71	5.92	3.26
G330.37−00.03 (a)	330.35	−0.03	0.46	0.16	−40.9	8.9	1.50	6.21	2.81
G330.87+00.19 (a)	330.77	0.26	0.44	0.23	−43.8	2.3	0.58	6.06	3.01
G331.19−00.30 (a)	331.20	−0.28	0.36	0.68	−47.4	3.0	2.15	5.87	3.24
G331.24−00.43 (a)	331.23	−0.42	0.45	0.26	−43.1	4.1	1.15	6.06	2.98
G331.34+00.13 (a)	331.38	0.15	0.44	0.36	−44.8	5.4	1.91	5.97	3.09
G331.64+00.51 (a)	331.63	0.50	0.41	0.45	−52.2	3.3	1.58	5.64	3.55
G332.15+00.58 (a)	332.20	0.63	0.46	0.37	−38.8	2.3	0.83	6.20	2.75
G332.16+00.01 (a)	332.20	−0.05	0.48	0.73	−48.4	3.9	2.83	5.76	3.34
G332.45−00.38 (a)	332.45	−0.39	0.39	0.19	−41.6	1.7	0.34	6.05	2.94

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G332.64+00.27 (a)	332.65	0.27	0.41	0.13	−50.4	4.6	0.65	5.64	3.48
G332.92−00.75 (a) *	332.92	−0.71	0.41	0.15	−53.9	3.2	0.50	5.47	3.70
G332.92−00.75 (a) *	332.92	−0.71	0.41	0.17	−2.5	2.0	0.33	8.13	0.42
G333.21+00.27 (a)	333.21	0.29	0.38	0.46	−49.0	2.9	1.40	5.66	3.42
G333.54+00.03 (a) *	333.52	0.05	0.35	0.13	−41.5	6.9	0.92	5.98	2.98
G333.54+00.03 (a) *	333.52	0.05	0.35	0.21	−49.9	3.7	0.78	5.60	3.49
G333.65+00.37 (a)	333.68	0.37	0.44	0.61	−34.5	2.8	1.81	6.33	2.54
G333.76+00.33 (a)	333.77	0.34	0.48	0.38	−33.3	2.6	1.06	6.39	2.46
G333.97+00.17 (a)	333.96	0.17	0.51	0.25	−46.6	2.1	0.52	5.71	3.32
G334.19−00.19 (a)	334.20	−0.20	0.37	0.35	−47.8	4.7	1.75	5.64	3.40
G334.45−00.02 (a)	334.44	−0.02	0.35	0.16	−31.7	3.2	0.52	6.43	2.39
G334.45−00.02 (b)	334.46	−0.03	0.34	0.27	−31.7	2.0	0.55	6.43	2.39
G334.45−00.02 (c) *	334.41	−0.02	0.31	0.16	−43.9	2.2	0.36	5.80	3.17

Table 1.2 – Continued

IRDC Candidate[a] *MSXDC* (1)	Coordinates ℓ° (2)	b° (3)	Peak Contrast (4)	Peak T_A^* *K* (5)	Velocity *km s*$^{-1}$ (6)	FWHM *km s*$^{-1}$ (7)	Int. Int.[b] $K\,\mathrm{km\,s^{-1}}$ (8)	R_{Gal} [c] *kpc* (9)	D_{near} [c] *kpc* (10)
G334.45−00.02 (c) *	334.41	−0.02	0.31	0.19	−32.1	1.9	0.35	6.41	2.41
G334.70+00.02 (a)	334.70	0.03	0.27	0.27	−85.1	3.0	0.80	4.31	5.36
G335.10−00.40 (a)	335.07	−0.43	0.45	0.35	−38.5	3.4	1.18	6.02	2.87
G335.27−00.33 (a) *	335.23	−0.32	0.49	0.15	−44.2	2.1	0.33	5.72	3.24
G335.27−00.33 (a) *	335.23	−0.32	0.49	0.67	−39.8	2.5	1.63	5.94	2.96
G335.30−00.08 (a) *	335.28	−0.14	0.50	0.59	−44.9	3.5	2.20	5.69	3.28
G335.30−00.08 (a) *	335.28	−0.14	0.50	0.18	−38.8	3.9	0.74	5.99	2.90
G335.58−00.28 (a)	335.59	−0.29	0.55	2.00	−46.8	5.0	10.65	5.57	3.41
G337.16−00.38 (a)	337.13	−0.38	0.61	0.48	−40.9	3.0	1.46	5.73	3.15
G337.16−00.38 (b) *	337.19	−0.40	0.42	0.34	−19.7	1.7	0.58	6.98	1.68
G337.16−00.38 (b) *	337.19	−0.40	0.42	0.38	−40.6	3.0	1.15	5.74	3.14
G337.22+00.64 (a)	337.24	0.63	0.39	0.21	−44.9	1.6	0.36	5.52	3.41
G337.36−00.34 (a)	337.40	−0.40	0.35	0.32	−55.3	0.8	0.25	5.05	4.00

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G337.49−00.19 (a)	337.50	−0.19	0.29	0.26	−54.3	1.8	0.47	5.08	3.95
G337.51−00.10 (a)	337.54	−0.08	0.47	0.24	−54.7	1.3	0.32	5.06	3.98
G338.34+00.60 (a)	338.34	0.61	0.41	0.58	−59.5	3.9	2.37	4.80	4.27
G338.61−00.45 (a)	338.61	−0.44	0.38	0.23	−38.7	1.8	0.45	5.71	3.12
G338.86−00.48 (a)	338.86	−0.48	0.42	0.31	−36.9	3.1	1.03	5.79	3.02
G338.92−00.42 (a)	338.93	−0.42	0.39	0.21	−38.4	2.3	0.52	5.70	3.12
G339.32−00.47 (a)	339.35	−0.46	0.36	0.43	−36.1	2.9	1.30	5.79	3.01
G339.36−00.42 (a)	339.33	−0.41	0.40	0.36	−38.1	3.7	1.35	5.67	3.14
G340.09−00.84 (a)	340.09	−0.86	0.38	0.51	−31.5	1.9	0.98	5.99	2.74
G340.20−00.21 (a)	340.22	−0.17	0.41	0.56	−52.8	5.8	3.25	4.87	4.07
G340.40−00.43 (a)	340.39	−0.40	0.39	0.38	−46.5	5.8	2.20	5.13	3.75
G340.69−00.94 (a)	340.72	−0.96	0.41	1.05	−28.7	2.2	2.41	6.12	2.59
G341.88+00.38 (a)	341.89	0.39	0.36	0.15	−39.9	4.5	0.74	5.30	3.49

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G341.94−00.17 (a)	341.94	−0.18	0.43	0.47	−42.0	5.2	2.45	5.18	3.63
G342.18+00.49 (a)	342.20	0.51	0.36	0.13	−26.2	3.8	0.52	6.15	2.52
G342.54+00.16 (a)	342.57	0.17	0.40	0.34	−41.6	2.6	0.96	5.12	3.66
G342.67+00.11 (a)	342.68	0.12	0.39	0.46	−41.9	3.7	1.81	5.09	3.70
G343.49−00.39 (a)	343.48	−0.41	0.53	0.70	−28.8	2.6	1.80	5.81	2.87
G343.77−00.15 (a) *	343.75	−0.16	0.54	1.21	−28.9	2.2	2.67	5.76	2.91
G343.77−00.15 (a) *	343.75	−0.16	0.54	0.57	−25.8	8.5	4.84	6.00	2.65
G343.77−00.15 (b)	343.73	−0.18	0.45	0.46	−26.4	3.5	1.62	5.95	2.71
G343.92−00.09 (a)	343.94	−0.08	0.37	0.22	−23.2	4.4	1.00	6.19	2.45
G345.02−00.23 (a)	345.05	−0.21	0.48	0.33	−27.4	3.7	1.24	5.71	2.94
G345.02−00.23 (b)	344.99	−0.22	0.47	0.31	−26.3	4.5	1.39	5.80	2.84
G345.29+00.00 (a)	345.29	−0.00	0.49	0.36	−18.7	2.3	0.84	6.42	2.17
G345.68+00.31 (a)	345.68	0.32	0.48	0.33	−17.6	2.5	0.82	6.48	2.11

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G345.71−00.33 (a)	345.77	−0.25	0.42	0.25	−36.7	1.5	0.40	4.97	3.74
G346.36−00.65 (a)	346.36	−0.65	0.48	0.99	5.6	1.0	1.02	8.96	...
G348.13+00.74 (a)	348.12	0.75	0.40	0.48	−7.1	1.3	0.65	7.38	1.15
G348.28+00.64 (a) *	348.29	0.64	0.38	0.36	−28.2	1.0	0.38	5.12	3.50
G348.28+00.64 (a) *	348.29	0.64	0.38	0.63	−7.4	2.2	1.44	7.34	1.19
G348.31+00.70 (a)	348.32	0.71	0.39	0.20	−6.5	1.5	0.31	7.45	1.08
G348.34+00.64 (a) *	348.35	0.65	0.38	0.29	−7.6	1.2	0.37	7.30	1.23
G348.34+00.64 (a) *	348.35	0.65	0.38	0.38	−28.5	1.4	0.57	5.09	3.54
G348.40+00.47 (a)	348.40	0.48	0.47	0.72	−6.8	2.9	2.07	7.41	1.12
G350.08−00.98 (a)	350.08	−0.98	0.42	0.39	−21.7	2.1	0.85	5.34	3.24
G350.92+00.74 (a)	350.92	0.74	0.60	0.48	−4.1	3.8	1.80	7.60	0.91
G350.93+00.66 (a)	350.93	0.66	0.50	0.37	−4.3	2.2	0.82	7.16	1.36
G351.00+00.99 (b)	350.99	0.88	0.36	0.39	−4.8	1.0	0.38	7.48	1.04

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G351.52+00.69 (a)	351.52	0.69	0.39	1.18	−2.8	4.6	5.78	7.78	0.73
G351.56+00.61 (a)	351.57	0.60	0.40	0.98	−2.7	2.7	2.81	7.78	0.73
G351.77−00.51 (a)	351.79	−0.51	0.54	0.69	−3.1	4.9	3.41	7.70	0.81
G351.86+00.65 (a)	351.86	0.66	0.37	0.75	−1.8	4.2	3.35	7.93	0.57
G352.10+00.71 (a)	352.12	0.73	0.51	0.41	0.8	5.6	2.31	8.43	0.07
G352.10+00.71 (b)	352.07	0.69	0.46	0.53	0.6	2.5	1.34	8.40	0.10
G352.54+00.71 (a)	352.51	0.78	0.43	0.57	−1.2	3.3	1.99	8.02	0.48
G353.37−00.33 (a)	353.39	−0.34	0.43	1.00	−17.6	5.5	5.86	4.91	3.63
G353.51+00.59 (a)	353.50	0.67	0.44	0.63	−3.1	4.4	2.95	7.56	0.95
G353.51+00.59 (b)	353.50	0.58	0.41	0.49	−5.5	1.7	0.87	7.03	1.48
G353.90+00.25 (a)	353.85	0.23	0.62	0.77	3.8	2.6	2.08	9.35	...
G353.90+00.25 (b)	353.95	0.24	0.59	0.63	2.8	2.5	1.71	9.06	...
G353.90+00.25 (c)	353.92	0.25	0.50	0.43	3.1	3.2	1.48	9.15	...

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	*kpc*	*kpc*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
G354.38+00.21 (a)	354.36	0.26	0.48	0.25	3.4	2.9	0.79	9.35	...
G355.17−00.33 (a)	355.18	−0.41	0.40	0.91	−3.1	5.7	5.46	7.32	1.19
G355.19−00.48 (a)	355.20	−0.49	0.35	0.22	−5.1	2.3	0.54	6.72	1.79
G355.20−00.65 (a)	355.21	−0.66	0.41	0.32	−0.8	4.0	1.36	8.04	0.47
G355.26−00.23 (a)	355.28	−0.20	0.42	0.38	−0.7	2.9	1.17	8.05	0.45
G355.40+00.10 (a)	355.41	0.10	0.39	0.75	4.6	3.1	2.47	10.55	...
G355.66+00.08 (a)	355.68	0.09	0.39	0.41	4.2	1.3	0.57	10.34	...
G356.40+00.01 (a)	356.41	0.03	0.57	0.33	−6.9	2.7	0.95	5.63	2.88
G356.50+00.20 (a)	356.48	0.19	0.49	0.79	−5.5	2.4	1.99	6.07	2.43
G356.51−00.43 (a)	356.54	−0.43	0.36	1.00	−18.2	1.4	1.53	3.18	5.35
G356.86−00.01 (a)	356.86	−0.00	0.43	1.69	−8.8	2.9	5.26	4.81	3.70
G357.07−00.78 (a)	357.07	−0.78	0.43	0.68	3.7	1.2	0.84	12.77	...
G358.06−00.47 (a) *	358.06	−0.47	0.39	0.21	9.5	1.6	0.37	...	...

Table 1.2 – Continued

IRDC Candidate[a] MSXDC (1)	Coordinates ℓ° (2)	b° (3)	Peak Contrast (4)	Peak T_A^* K (5)	Velocity $km\ s^{-1}$ (6)	FWHM $km\ s^{-1}$ (7)	Int. Int.[b] $K\,\mathrm{km\,s^{-1}}$ (8)	R_{Gal} [c] kpc (9)	D_{near} [c] kpc (10)
G358.06−00.47 (a) *	358.06	−0.47	0.39	0.30	−5.8	2.2	0.68	4.65	3.85
G358.52−00.25 (a)	358.50	−0.24	0.40	0.22	−26.0	3.5	0.82	1.48	7.04
G358.70−00.22 (a)	358.72	−0.24	0.27	0.20	−34.3	20.3	4.34	1.06	7.46
G358.97+00.08 (a)	358.98	0.08	0.47	0.76	−2.6	2.1	1.67	5.04	3.46
G359.20−00.20 (a)	359.21	−0.21	0.38	0.18	−17.5	15.8	3.04	1.23	7.28
G359.28+00.02 (a)	359.30	0.03	0.38	0.88	−1.3	2.1	1.96	5.63	2.87
G359.31+00.28 (a)	359.32	0.29	0.42	0.35	0.7	2.9	1.09	10.37	...
G359.34−00.41 (a)	359.36	−0.42	0.23	0.42	13.8	1.5	0.67	...	...
G359.60−00.22 (a)	359.61	−0.23	0.36	1.40	19.0	3.4	5.03	...	...
G359.91+00.17 (a) *	359.94	0.17	0.58	0.90	−0.9	6.0	5.75	1.60	6.90
G359.91+00.17 (a) *	359.94	0.17	0.58	0.41	15.2	2.0	0.88	...	...

[a]An asterisk (*) denotes IRDCs with more than one detected velocity component.

Table 1.2 – Continued

IRDC Candidate[a]	Coordinates		Peak	Peak T_A^*	Velocity	FWHM	Int. Int.[b]	R_{Gal} [c]	D_{near} [c]
MSXDC	ℓ°	b°	Contrast	K	$km\ s^{-1}$	$km\ s^{-1}$	$K\,\mathrm{km\,s^{-1}}$	kpc	kpc
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

[b]Integrated Intensity

[c]An ellipsis $(\cdots)$ denotes IRDCs for which a kinematic distance could not be determined.

Chapter 2

Chapter 2 Title

2.1 This Section Title

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2.1.1 Subsection

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Chapter 3

Chapter 3 Title

3.1 This Section Title

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Chapter 4

Chapter 4 Title

4.1 This Section Title

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4.1.1 Subsection

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Chapter 5

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List of Journal Abbreviations

Ann. Geophys.	Annales Geophysicae
Appl. Opt.	Applied Optics
Astron. Astrophys.	Astronomy and Astrophysics
Astrophys. J.	Astrophysical Journal
Astrophys. J. Lett.	Astrophysical Journal Letters
Geophys. Monogr.	Geophysical Monograph
Geophys. Res. Lett.	Geophysical Research Letters
J. Atmos. Solar Terr. Phys.	Journal of Atmospheric and Solar-Terrestrial Physics
J. Geophys. Res.	Journal of Geophysical Research
Mon. Not. R. Astron. Soc.	Monthly Notices of the Royal Astronomical Society
Nucl. Instrum. Methods	Nuclear Instruments and Methods
Phys. Rev.	Physical Review
Rev. Geophys. Space Phys.	Reviews of Geophysics and Space Physics
Sol. Phys.	Solar Physics
Space Sci. Rev.	Space Science Reviews
Space Wea. J.	Space Weather Journal

References

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