## Submitted to *Theoretical Economics*

1		1
2	A sample article title	2
3		3
4	FIRST AUTHOR	4
5	First Department of the First Author, University and Second Department of the First Author,	5
	University	6
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7	SECOND AUTHOR	7
8	Department of the Second and Third Authors, University	8
9		9
10	Third Author	10
11	Department of the Second and Third Authors, University	11
12		12
13	The abstract should summarize the contents of the paper. It should be	13
14	clear, descriptive, self-explanatory and not longer than 150 words. It	14
	should also be suitable for publication in abstracting services. Please	
15	avoid using math formulas as much as possible. We recommend 3–8	15
16	keywords and up to 3 JEL codes.	16
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20		20
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	We thank four anonymous referees. The Editor should not be thanked anonymously or by name in	
24	this footnote, or elsewhere in the paper. The first author gratefully acknowledges financial support	24
25	from the National Science Foundation through Grant XXX-0000000.	25
26		26
27		27

1	1. Introduction	1
2	This template helps you to create a properly formatted $\LaTeX$ 2 $_{\mathcal{E}}$ manuscript. Pre-	2
3	pare your paper in the same style as used in this sample .pdf file. Try to avoid	3
4	excessive use of italics and bold face; underlining is generally banned (except for	4
5	exceptional cases). Please do not use any $\LaTeX 2_{arepsilon}$ or $\TeX 2_{arepsilon}$ commands that affect	5
6	the layout or formatting of your document (i.e., commands like \textheight,	6
7	\textwidth, etc.). Note that the Introduction should be Section 1 it should not	7
8	imediately follow the abstract without a heading.	8
9		9
10	2. Section headings	10
11	Here are some subsections:	11
12		12
13	2.1 A subsection	13
14	Regular text.	14
15		15
16	2.1.1 A subsubsection Regular text.	16
17	Paragraph heading If you want to add mini-headings for paragraphs without	17
18	<pre>numbers please use \paragraph*{}.</pre>	18
19		19
20	3. Text	20
21	3.1 Lists	21
22	The following is an example of an <i>itemized</i> list, two levels deep.	22
23	The following is all example of all wermsen list, two levels deep.	23
24	• This is the first item of an itemized list. Each item in the list is marked with a	24
25	"tick." The document style determines what kind of tick mark is used.	25
26	• This is the second item of the list. It contains another list nested inside of it.	26
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1	3.2 Punctuation	1
2	Avoid unnecessary hyphenation; many hyphenated words can be treated as one	2
3	or two words. Dashes come in three sizes: a hyphen, an intra-word dash like " $U$ -	3
4	statistics" or "the time-homogeneous model"; a medium dash (also called an "en-	4
5	dash") for number ranges or between two equal entities like "1–2" or "Cauchy–	5
6	Schwarz inequality"; and a punctuation dash (also called an "em-dash") in place	6
7	of a comma, semicolon, colon or parentheses—like this.	7
8	Generating an ellipsis with the right spacing around the periods requires	8
9	using \ldots.	9
10	Theoretical Economics is using longer spaces after periods, please add \ af-	10
11	ter periods that are not at the end of a sentence, in order to have regular	11
12	spaces. For example, if there is an abbreviation (e.g., econ. theory) which is	12
13	not the end of an article but appears in a middle of a sentence, please code it	13
14	as (e.g., econ.\ theory).	14
15		15
16	3.3 Citation	16
17	Only include in the reference list entries for which there are text citations, and	17
18	make sure all citations are included in the reference list. Simple author and year	18
19	cite: Aumann (1987). Multiple bibliography items cite: Peck (1994), Enelow and	19
20	Hinich (1990), Wittman (1990). Author only cite: Wittman. Year only cite: (1990).	20
21	Citing bibliography with object Aumann (1987, Theorem 1). Citing within brack-	21
22	ets is done with the same commands (e.g., Peck (1994), Enelow and Hinich (1990),	22
23	Wittman (1990)).	23
24		24
25	4. Fonts	25
26	Please use text fonts in text mode, e.g.:	26
27	_	27

	Submitted to <i>Theoretical Economics</i>	A sample running head title	5	
1	<pre>Roman </pre>			1
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4	<pre>Bold </pre>			4
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6	SMALL CAPS			6
7	Sans serif			7
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9	Typewriter		!	9
10	Please use mathematical fonts in mathematical mo	de, e.g.:	:	10
11	ADC.1.102 \		:	11
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25 26	Note that \mathcal, \mathbb belongs to capital	letters-only font typefaces.		25
27	•		•	2 o 2 7
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1	5. NOTES	1
2	Footnotes <sup>1</sup> pose no problems in text. <sup>2</sup> Please do not add footnotes on math.	2
3		3
4	6. Numbers	4
5 6 7 8 9	A decimal point always should be preceded by a whole number and never should be left "naked." Decimal expressions of numbers less than 1 always should be preceded by a zero (0) to enhance the visibility of the decimal. For example, .3 should be 0.3. This applies to text, tables, and figures.	5 6 7 8 9
11	7. QUOTATIONS	11
12	Text is displayed by indenting it from the left margin. There are short quotations	12
13	This is a short quotation. It consists of a single paragraph of text. There is no paragraph indentation. It should be coded between \begin{quote} and \end{quote}.	13 14
15	and longer ones.	15
16 17 18	This is a longer quotation. It consists of two paragraphs of text. The beginning of each paragraph is indicated by an extra indentation.  This is the second paragraph of the quotation. It is just as dull as the first paragraph.	16 17 18
19	It should be coded between \begin{quotation} and \end{quotation}.	19
20		20
21	8. Environments	21
22	Please use regular counters (Theorem 1) as opposed to counters belonging on	22
24	sections (Theorem 3.1). Results (Lemmas, Propositions, Theorems, Claims) can	24
25	be on the same or different counters.	25
26	<sup>1</sup> This is an example of a footnote.	26
27	<sup>2</sup> Note that footnote number is after punctuation.	27

	Submitted to <i>Theoretical Economics</i> A sample running head title 7	
1	8.1 Examples for plain-style environments	1
2	THEOREM 1. This is the body of Theorem 1.	2
3	PROOF. This is the body of the proof of the theorem above.	3
4		4
5	CLAIM 1. This is the body of Claim 1.	5
6 7	AXIOM 1. This is the body of Axiom 1. Axioms should be on a different counter	6 7
8	from results (e.g. Theorems, Propositions, Lemmas).	8
9	THEOREM 2 (Title of the Theorem). This is the body of Theorem 2. Theorem 2 has	9
10	additional title.	10
11	LEMMA 3. This is the body of Lemma 3. Lemma 3 is numbered after Theorem 2	11
12	because we used [theorem] $in$ \newtheorem.	12
13		13
14	FACT. This is the body of the fact. Fact is unnumbered because we used \newtheore	3M4
15	$instead\ of \newtheorem.$	15
16	PROOF OF THEOREM 2. This is the body of the proof of Theorem 2. $\Box$	16
17		17
18	8.2 Examples for remark-style environments	18
19	The following environments can be numbered or not; if numbered, they should	19
20	be on different counters from results.	20
21	DEFINITION 1. This is the body of Definition 1. Definitions should be on a differ-	21
22		22
23	ent counter from results (e.g. Theorems, Propositions, Lemmas).	23
23		23
24	EXAMPLE. This is the body of the example. Example is unnumbered because we	24

### 9. EQUATIONS AND THE LIKE

Only number equations to which there is a subsequent reference. See equations below (1)–(7). Please punctuate equations as you would punctuate a sentence, that is add a comma between two equations and add a period if it ends a sentence.

Two equations:

$$C_s = K_M \frac{\mu/\mu_x}{1 - \mu/\mu_x}$$
 (1)

<sup>9</sup> and

$$G = \frac{P_{\text{opt}} - P_{\text{ref}}}{P_{\text{ref}}} 100(\%).$$
 (2)

<sup>12</sup> Equation arrays:

$$\frac{dS}{dt} = -\sigma X + s_F F, \tag{3}$$

$$\frac{dX}{dt} = \mu X,\tag{4}$$

$$\frac{dP}{dt} = \pi X - k_h P, (5)$$

$$\frac{dV}{dt} = F. ag{6}$$

One long equation, note that the equation number is on the last line:

$$\mu_{\text{normal}} = \mu_x \frac{C_s}{K_x C_x + C_s}$$

$$\mu_{\text{normal}} = \mu_x K_x C_x + C_s$$

$$= \mu_{\text{normal}} - Y_{x/s} (1 - H(C_s)) (m_s + \pi/Y_{p/s})$$
23

$$= \mu_{\text{normal}}/Y_{x/s} + H(C_s)(m_s + \pi/Y_{p/s}). \tag{7}$$

Note that variables made of more than one letter should use command \mathit, e.g., sov = 550, where sov is sum of votes. Abbreviations used in subscripts or

1		TABLE 1. Th	ne spherical cas	e ( $I_1 = 0$ , $I_2 = 0$	).		1
2	Equil. Points,	x	y	z	C	S	2
3							3

۷	Equil. Points,	x	y	z	C	S
3	$L_1$	-2.485252241	0.000000000	0.017100631	8.230711648	U
4	$L_2$	0.000000000	0.000000000	3.068883732	0.000000000	S
5	$L_3$	0.009869059	0.000000000	4.756386544	-0.000057922	U
6	$L_4$	0.210589855	0.000000000	-0.007021459	9.440510897	U
7	$L_5$	0.455926604	0.000000000	-0.212446624	7.586126667	U
	$L_6$	0.667031314	0.000000000	0.529879957	3.497660052	U
3	$L_7$	2.164386674	0.000000000	-0.169308438	6.866562449	U
)	$L_8$	0.560414471	0.421735658	-0.093667445	9.241525367	U
)	$L_9$	0.560414471	-0.421735658	-0.093667445	9.241525367	U
_	$L_{10}$	1.472523232	1.393484549	-0.083801333	6.733436505	U
	$L_{11}$	1.472523232	-1.393484549	-0.083801333	6.733436505	U
	-					

Note: This is how table note should be presented. Please do not use asterisks or bold face to denote statistical significance. We encourage authors to report standard errors and coverage sets or confidence intervals.

superscripts should use \mathrm, e.g.,  $t_{max} - t_{min} = 10$ . Operator names should use \operatorname, e.g. AR(1). Also, note that  $\emptyset$  symbol is preferred to  $\varnothing$ .

### 10. Tables and figures

Cross-references to labeled tables: As you can see in Table 1 and also in Table 2. Sample of cross-reference to figure: Figure 1 shows that it is not easy to get something on paper. Note that figures will be in grayscale in the printed version.

APPENDIX: TITLE

Appendices should be provided in {appendix} environment. If there is only one appendix, then please refer to it in text as ... in the Appendix.

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IARIFI	Sample	nasteriar	estimates	tor eac	n madei
1110000	Juilpic	postcrior	Cottillates.	ioi cuc	m model.

				(	Quantile	
Model	Parameter	Mean	Std. Dev.	2.5%	50%	97.5%
Model 0	$eta_0$	-12.29	2.29	-18.04	-11.99	-8.56
	$eta_1$	0.10	0.07	-0.05	0.10	0.26
	$eta_2$	0.01	0.09	-0.22	0.02	0.16
Model 1	$eta_0$	-4.58	3.04	-11.00	-4.44	1.06
	$eta_1$	0.79	0.21	0.38	0.78	1.20
	$eta_2$	-0.28	0.10	-0.48	-0.28	-0.07
Model 2	$eta_0$	-11.85	2.24	-17.34	-11.60	-7.85
	$eta_1$	0.73	0.21	0.32	0.73	1.16
	$eta_2$	-0.60	0.14	-0.88	-0.60	-0.34
	$eta_3$	0.22	0.17	-0.10	0.22	0.55

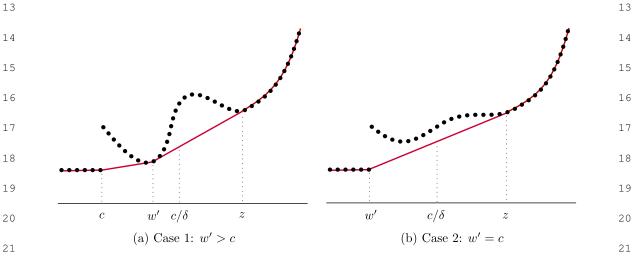


FIGURE 1. The dotted lines show the values of u(x) for x in the discrete support of F. The solid lines show  $u_{\rm conv}(x)$ .

# APPENDIX A: TITLE OF THE FIRST APPENDIX

If there are more than one appendix, then please refer to it as  $\dots$  in Appendix A, Appendix B, etc.

1.3

2.6

### APPENDIX B: TITLE OF THE SECOND APPENDIX

### B.1 First subsection of Appendix B

If your appendix is long, make sure to divide it into subsections and refer to them in text. Use the standard Lagranger Commands for headings in {appendix}. Headings and other objects will be numbered automatically.

$$\mathcal{P} = (j_{k,1}, j_{k,2}, \dots, j_{k \ m(k)}). \tag{8}$$

Sample of cross-reference to formula (8) in Appendix B.1. Note that it is better to refer to Appendix B.1 as opposed to Appendix B, because it is easier for the reader to locate the necessary place.

#### REFERENCES

Aumann, Robert (1987), "Correlated equilibrium as an expression of Bayesian rationality." *Econometrica*, 55, 1–18. [4]

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of competition." Unpublished Manuscript, Ohio State University. [4]

<sup>18</sup> Enelow, James, and Melvin Hinich, eds. (1990), *Advances in the Spatial Theory of* <sup>1</sup>

<sup>19</sup> *Voting*. Cambridge University Press, Cambridge, U.K. [4]

Wittman, Donald (1990), "Spatial strategies when candidates have policy preferences." In *Advances in the Spatial Theory of Voting* (M. Hinich and J. Enelow,

eds.), 66–98, Cambridge University Press, Cambridge, U.K. [4]

Co-editor [Name Surname; will be inserted later] handled this manuscript.