# Submitted to Econometrica

# A Sample Document

First Author, Second Author and Third Author

# $Submitted\ to\ Econometrica$

1	A SAMPLE DOCUMENT <sup>1</sup>
2	
3	First Author <sup>a,2</sup> , Second Author <sup>a</sup> and Third Author <sup>b</sup>
4	The abstract should summarize the contents of the paper. It should be clear,
5	descriptive, self-explanatory and not longer than 150 words. It should also be
6	suitable for publication in abstracting services. Please avoid using math formulas as much as possible.
7	This is a sample input file. Comparing it with the output it generates can
8	show you how to produce a simple document of your own.
9	Keywords: sample, $\LaTeX 2_{\varepsilon}$ .
10	
11	1. Ordinary text
12	The ends of words and sentences are marked by spaces. It doesn't matter
13	how many spaces you type; one is as good as 100. The end of a line counts
14	as a space.
15	One or more blank lines denote the end of a paragraph.
16	Since any number of consecutive spaces are treated like a single one, the
17	formatting of the input file makes no difference to TeX, but it makes a
18	difference to you. When you use LaTeX, making your input file as easy to
19	read as possible will be a great help as you write your document and when
20	you change it. This sample file shows how you can add comments to your
21	own input file.
22	Because printing is different from typewriting, there are a number of
23	things that you have to do differently when preparing an input file than
24	if you were just typing the document directly. Quotation marks like "this"
25	
26	<sup>1</sup> Footnote to the title with the 'thankstext' command. <sup>2</sup> Some comment
27	<sup>a</sup> Address of the First and Second authors, usually few lines longusually few lines long
28	usually few lines long <sup>b</sup> Address of the Third author, usually few lines long, usually few lines long
	Address of the Timu author, usually few lines long, usually few lines long

 $\verb|third@somewhere.com|; | http://www.foo.com|$ 

have to be handled specially, as do quotes within quotes: "'this' is what I just wrote, not 'that'".

Dashes come in three sizes: an intra-word dash, a medium dash for number ranges like 1–2, and a punctuation dash—like this.

A sentence-ending space should be larger than the space between words within a sentence. You sometimes have to type special commands in conjunction with punctuation characters to get this right, as in the following sentence. Gnats, gnus, etc. all begin with G. You should check the spaces after periods when reading your output to make sure you haven't forgotten any special cases. Generating an ellipsis ... with the right spacing around the periods requires a special command.

TeX interprets some common characters as commands, so you must type special commands to generate them. These characters include the following:

In printing, text is emphasized by using an *italic* type style.

A long segment of text can also be emphasized in this way. Text within such a segment given additional emphasis with Roman type. Italic type loses its ability to emphasize and become simply distracting when used excessively.

It is sometimes necessary to prevent TEX from breaking a line where it might otherwise do so. This may be at a space, as between the "Mr." and "Jones" in "Mr. Jones", or within a word—especially when the word is a symbol like *itemnum* that makes little sense when hyphenated across lines.

TeX is good at typesetting mathematical formulas like x - 3y = 7 or  $a_1 > x^{2n}/y^{2n} > x'$ . Remember that a letter like x is a formula when it denotes a mathematical symbol, and should be treated as one.

### 2. NOTES

Footnotes<sup>1</sup> pose no problem<sup>2</sup>.

<sup>&</sup>lt;sup>1</sup>This is an example of a footnote.

<sup>&</sup>lt;sup>2</sup>And another one

1	3. DISPLAYED TEXT	1
2	Text is displayed by indenting it from the left margin. Quotations are	2
3	commonly displayed. There are short quotations	3
4	This is a short a quotation. It consists of a single paragraph of text. There is	4
5	no paragraph indentation.	5
6	and longer ones.	6
7	This is a longer quotation. It consists of two paragraphs of text. The beginning	7
8	of each paragraph is indicated by an extra indentation.	8
9	This is the second paragraph of the quotation. It is just as dull as the first	9
10	paragraph.	10
11	Another frequently-displayed structure is a list. The following is an example	11
12	of an <i>itemized</i> list, four levels deep.	12
13	• This is the first item of an itemized list. Each item in the list is marked	13
14	with a "tick". The document style determines what kind of tick mark	14
15	is used.	15
16	• This is the second item of the list. It contains another list nested inside	16
17	it. The three inner lists are an <i>itemized</i> list.	17
18	- This is the first item of an enumerated list that is nested within	18
19 20	the itemized list.	20
21	- This is the second item of the inner list. LATEX allows you to nest	21
22	lists deeper than you really should.	22
23		23
24	This is the rest of the second item of the outer list. It is no more	24
25	interesting than any other part of the item.	25
26	• This is the third item of the list.	26
27	The following is an example of an <i>enumerated</i> list, four levels deep.	27
28	1. This is the first item of an enumerated list. Each item in the list is marked with a "tick". The document style determines what kind of	28

29

tick mark is used.

the enumerated list.  (b) This is the second item of the inner list. Late and the enumerated lists deeper than you really should.  This is the rest of the second item of the outer list. It is no more interesting than any other part of the item.  3. This is the third item of the list.  The following is an example of a description list.  Cow Highly intelligent animal that can produce milk out of grass.  Horse Less intelligent animal renowned for its legs.  Human being Not so intelligent animal that thinks that it can think.  You can even display poetry.  There is an environment for verse  Whose features some poets will curse.  For instead of making  Them do all line breaking,  It allows them to put too many words on a line when they'd  rather be forced to be terse.  Mathematical formulas may also be displayed. A displayed formula is one-line long; multiline formulas require special formatting instructions. $x' + y^2 = z_i^2$ Don't start a paragraph with a displayed equation, nor make one a paragraph by itself.  Example of a theorem:	2	it. The three inner lists are an <i>enumerated</i> list.	2
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$x' + y^2 = z_i^2$ 25  26  Don't start a paragraph with a displayed equation, nor make one a paragraph by itself.  27  Example of a theorem:	22	Mathematical formulas may also be displayed. A displayed formula is	22
$x + y^2 = z_i$ 25  26 Don't start a paragraph with a displayed equation, nor make one a paragraph by itself.  27 graph by itself.  28 Example of a theorem:	23	one-line long; multiline formulas require special formatting instructions.	23
Don't start a paragraph with a displayed equation, nor make one a paragraph by itself.  Example of a theorem:	24	$x'+y^2=z^2$	24
graph by itself.  Example of a theorem:	25	$x+y=z_i$	25
Example of a theorem:	26	Don't start a paragraph with a displayed equation, nor make one a para-	26
29	27	graph by itself.	27
Theorem 3.1 All conjectures are interesting, but some conjectures are more	28	Example of a theorem:	28
	29	Theorem 3.1 All conjectures are interesting, but some conjectures are more	29

2. This is the second item of the list. It contains another list nested inside

1

TABLE I  $\label{eq:table_eq} \text{The spherical case } (I_1=0,\ I_2=0).$ 

Equil.					
Points	x	y	z	C	$\mathbf{S}$
$L_1$	-2.485252241	0.000000000	0.017100631	8.230711648	U
$L_2$	0.000000000	0.000000000	3.068883732	0.000000000	$\mathbf{S}$
$L_3$	0.009869059	0.000000000	4.756386544	-0.000057922	U
$L_4$	0.210589855	0.000000000	-0.007021459	9.440510897	U
$L_5$	0.455926604	0.000000000	-0.212446624	7.586126667	U
$L_6$	0.667031314	0.000000000	0.529879957	3.497660052	U
$L_7$	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

interesting than others.

Proof: Obvious. Q.E.D.

### 4. TABLES AND FIGURES

Cross reference to labelled table: As you can see in Table I on page 5 and also in Table II on page 7.

A major point of difference lies in the value of the specific production rate  $\pi$  for large values of the specific growth rate  $\mu$ . Already in the early publications Billingsley, P. (1999); Bourbaki, N. (1966); Ethier, S. N. and Kurtz, T. G. (1985) it appeared that high glucose concentrations in the production phase are well correlated with a low penicillin yield (the 'glucose effect'). It has been confirmed recently Billingsley, P. (1999); Bourbaki, N. (1966); Ethier, S. N. and Kurtz, T. G. (1985); Prokhorov, Yu. (1956) that high glucose concentrations inhibit the synthesis of the enzymes of the penicillin pathway, but not the actual penicillin biosynthesis. In other words, glucose

represses (and not inhibits) the penicillin biosynthesis.

These findings do not contradict the results of Billingsley, P. (1999) and of Prokhorov, Yu. (1956) which were obtained for continuous culture fermentations. Because for high values of the specific growth rate  $\mu$  it is most likely (as shall be discussed below) that maintenance metabolism occurs, it can be shown that in steady state continuous culture conditions, and with  $\mu$  described by a Monod kinetics

(4.1) 
$$C_s = K_M \frac{\mu/\mu_x}{1 - \mu/\mu_x}$$

Pirt & Rhigelato determined  $\pi$  for  $\mu$  between 0.023 and 0.086 h<sup>-1</sup>. They also reported a value  $\mu_x \approx 0.095$  h<sup>-1</sup>, so that for their experiments  $\mu/\mu_x$  is in the range of 0.24 to 0.9. Substituting  $K_M$  in Eq. (4.1) by the value  $K_M = 1$  g/L as used by Billingsley, P. (1999), one finds with the above equation  $0.3 < C_s < 9$  g/L. This agrees well with the work of Prokhorov, Yu. (1956), who reported that penicillin biosynthesis repression only occurs at glucose concentrations from  $C_s = 10$  g/L on. The conclusion is that the glucose concentrations in the experiments of Pirt & Rhigelato probably were too low for glucose repression to be detected. The experimental data published by Ryu & Hospodka are not detailed sufficiently to permit a similar analysis.

Bajpai & Reuß decided to disregard the differences between time constants for the two regulation mechanisms (glucose repression or inhibition) because of the relatively very long fermentation times, and therefore proposed a Haldane expression for  $\pi$ .

It is interesting that simulations with the Prokhorov, Yu. (1956) model for the initial conditions given by these authors indicate that, when the remaining substrate is fed at a constant rate, a considerable and unrealistic amount of penicillin is produced when the glucose concentration is still very high Bourbaki, N. (1966); Ethier, S. N. and Kurtz, T. G. (1985); Prokhorov, Yu. (1956) Simulations with the Bajpai & Reuß model correctly predict

1	TABLE II	1
2	Parameter sets used by Bajpai & Reuss	2
	parameter Set 1 Set 2	3
3	$\mu_x$ [h <sup>-1</sup> ] 0.092 0.11	
4	$K_x = [{ m g/g} \ { m DM}] = 0.15 = 0.006$	4
5	$\mu_p = [{ m g/g~DM~h}] = 0.005 = 0.004$	5
6	$K_p$ [g/L] 0.0002 0.0001	6
7	$K_i$ [g/L] 0.1 0.1	7
8	$Y_{x/s}$ [g DM/g] 0.45 0.47	8
9	$Y_{p/s}$ [g/g] 0.9 1.2	9
	$k_h   [h^{-1}]   0.04   0.01$	
10	$m_s$ [g/g DM h] 0.014 0.029	10
11		11
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14		14
15		15
16		16
17	Figure 1.— Pathway of the penicillin G biosynthesis.	17
18		18
19	almost no penicillin production in similar conditions.	19
	Sample of cross-reference to figure. Figure 1 shows that is not easy to get	
20	something on paper.	20
21	something on paper.	21
22		22
23	5. Headings	23
24		24
25	5.1. Subsection	25
26		26
0.7	Carr-Goldstein based their model on balancing methods and biochemical	07

knowledge. The original model (1980) contained an equation for the oxygen

dynamics which has been omitted in a second paper (1981). This simplified

model shall be discussed here.

### 5.1.1. Subsubsection

Carr-Goldstein based their model on balancing methods and biochemical knowledge. The original model (1980) contained an equation for the oxygen dynamics which has been omitted in a second paper (1981). This simplified model shall be discussed here.

# 6. EQUATIONS AND THE LIKE

Two equations:

(6.1) 
$$C_s = K_M \frac{\mu/\mu_x}{1 - \mu/\mu_x}$$

and

(6.2) 
$$G = \frac{P_{\text{opt}} - P_{\text{ref}}}{P_{\text{ref}}} \ 100 \ (\%)$$

Two equation arrays:

$$(6.3) \qquad \frac{dS}{dt} = -\sigma X + s_F F$$

$$(6.4) \qquad \frac{dX}{dt} = \mu X$$

$$(6.4) \quad \frac{dt}{dt} = \mu X$$

$$(6.5) \quad \frac{dP}{dt} = \pi X - k_h P$$

$$(6.6) \quad \frac{dV}{dt} = F$$
and,

$$(6.7) \mu_{\text{substr}} = \mu_x \frac{C_s}{K_x C_x + C_s}$$

(6.8) 
$$\mu = \mu_{\text{substr}} - Y_{x/s} (1 - H(C_s)) (m_s + \pi/Y_{p/s})$$

(6.9) 
$$\sigma = \mu_{\text{substr}}/Y_{x/s} + H(C_s)(m_s + \pi/Y_{p/s})$$

#### APPENDIX A: APPENDIX SECTION

We consider a sequence of queueing systems indexed by n. It is assumed that each system is composed of J stations, indexed by 1 through J, and K customer classes, indexed by 1 through K. Each customer class has a fixed route through the network of stations. Customers in class k,  $k = 1, \ldots, K$ , arrive to the system according to a renewal process, independently of the arrivals of the other customer classes. These customers move through the network, never visiting a station more than once, until they eventually exit the system.

# A.1. Appendix subsection

However, different customer classes may visit stations in different orders; the system is not necessarily "feed-forward." We define the path of class k customers in as the sequence of servers they encounter along their way through the network and denote it by

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

Sample of cross-reference to the formula A.1 in Appendix A.

# ACKNOWLEDGEMENTS

And this is an acknowledgements section with a heading that was produced by the \section\* command. Thank you all for helping me writing this LATEX sample file.

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1	Prokhorov, Yu. (1956). Convergence of random processes and limit theorems in prob-	1
2	ability theory. Theory Probab. Appl. 1 157–214.	2
3	——— (1957). Convergence of random processes and limit theorems in probability	3
4	theory II. Theory Probab. Appl. 2 157–214.	4
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