Norman Schofield · Gonzalo Caballero · Daniel Kselman *Editors* **Advances in Political Economy** Institutions, Modelling and Empirical Analysis

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Advances in Political Economy

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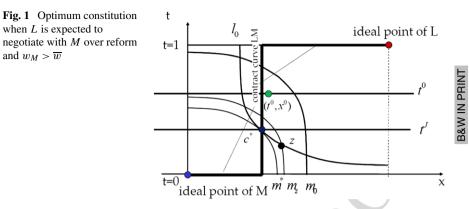
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select $x \in [x^M, x^L]$ as close as possible to x^R . The two negotiators will necessarily propose the default outcome *c* to each other. Naturally, also in the case where the optimal constitution involves $t^* = 0$, writing the constitution offers positive monetary value to the autocrat because $t^0 > 0$.

Proposition 5 In the static model with L and M as bargainers and $w_M > \overline{w}$, the autocrat strictly prefers handing down a constitution. The monetary value of handing down a constitution is strictly positive.

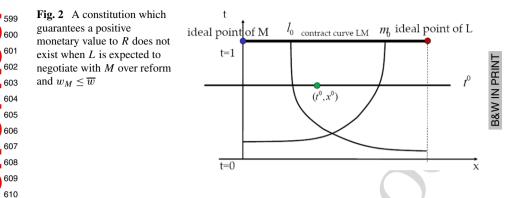
Proof See discussion above.

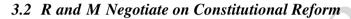
3.1.2 Case $w_M \leq \overline{w}$

Next suppose that M has less than average effective wealth and, therefore, agrees with L on the ideal tax rate of t = 1. In that case which is illustrated in Fig. 2, nego-tiations between L and M will result in the maximum level of redistribution which does not violate R's participation constraint, i.e. the tax rate is $t = t^0$, indepen-dently of the status quo constitution. To R, who lexicographically prefers wealth, the monetary value of writing a constitution is zero yet he would still like to write a constitution in order to satisfy his policy preference with ideal point x^R . If writ-ing a constitution is costly in terms of wealth, the autocrat prefers not to write a constitution.

Proposition 6 In the static model with L and M as bargainers and $w_M \le \overline{w}$, a constitution affects only policy but does not affect post transition wealth. Hence the monetary value of writing a constitution to the autocrat is zero.

⁵⁹⁶ *Proof* See discussion above.





In this section we assume that R and M are predicted to negotiate on constitutional reform. This was effectively the bargaining set up in the Chilean transition with the PN of the right and the moderate concertación negotiating transition. The "Pinochet" constitution had banned left-wing parties from political participation and their admission was one element of constitutional reform which emerged from the negotiations. It is, therefore, possible to argue that the authors of the "Pinochet" constitution had believed that any successor government was not going to include parties of the left.

3.2.1 Case $w_M > \overline{w}$

In this case there is harmony between M and R on their redistributive goals. Yet L's 627 participation constraint has to be satisfied. Without further constraints, M would 628 choose her ideal point in I which is not the point with the lowest tax rate but a 629 point on the contract curve with L. By strategically choosing the status quo con-630 stitution c^* to coincide with point in I where t is minimal, R can ensure a better 631 outcome for himself: If M proposes against c^* , she has to offer $t \le t^*$ to R, so it 632 must propose c^* itself. And if R proposes, he wants to propose c^* as well. Therefore, 633 equilibrium c^* is a stationary constitution. 634

It is easy to see in Fig. 3 that a point such as z is not an optimal choice for a status quo constitution: When R proposes he needs to offer M the point z again because there the tax rate is lowest given that M must obtain m_z and L must obtain l^0 . When M proposes, she needs to offer the point z as well. Thus, z is also a stationary constitution but it is not optimal for the autocrat.

⁶⁴⁰ Note that if *L*'s power to enforce outcomes in the conflict scenario is weak, *I* may ⁶⁴¹ include the t = 0 axis. In that case, *R* and *M* will always agree on a tax rate of zero. ⁶⁴² The monetary value of writing a constitution is strictly positive, as the reversion ⁶⁴³ outcome in the absence of a constitution involves $t^0 > 0$.

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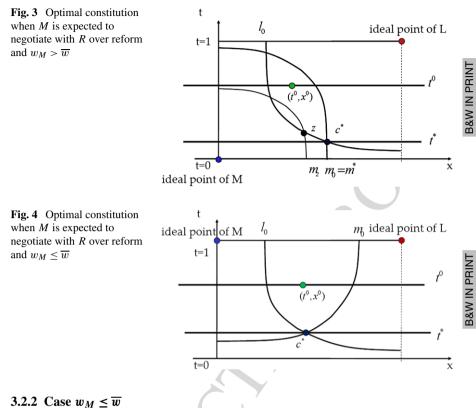
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Finally consider the case where M has below average effective wealth and nego-tiates with R. In that case, it is straightforward that R selects the status quo con-stitution c^* by choosing the point in I where the tax rate gets minimal. This case is illustrated in Fig. 4. Again, it is easy to check that this constitution is station-ary. Moreover, the constitution has monetary value to the autocrat because I is not vanishing by Lemma 2 and, hence, $t^* < t^0$.

3.3 Other Cases

For the case of negotiations between R and L, the choice of a constitution follows the same pattern as in the case of negotiations between R and M: If the mid-dle class has more than average effective wealth, c^* is chosen in the point in I where the tax rate gets minimal (see Fig. 3). If M has less than effective average wealth, c^* is again chosen in the point in I where the tax rate gets minimal (see Fig. 4).

The same holds if a proposal in the constitutional bargaining game needs ap-proval of all three players. In that case, any selection of $c \in I$ leaves no proposer

with another possibility than proposing c. Hence, the autocrat selects his preferred point in I, as in the case where R and M negotiate with each other.

To complete our exposition, suppose that one party is sufficient to carry through constitutional reform. Majority rule may put one party in such a position even when the other parties can prevent her from realizing her ideal point in the conflict scenario. If the preexistence of a constitution c is necessary to prevent descent into conflict, such a constitution would at least be weakly acceptable as a template to all players and it would be strictly preferred by the player who stands to gain from the reform process. Moreover, if the dominant party selects a reform constitution within the constitutional process, it will propose its preferred point in I. The question for the autocrat of whether to write a constitution now reduces to whether the dominant party will select $t < t^0$ in the constitutional process. This is obviously the case when either M is predicted to be dominant and fulfills $w_M < \overline{w}$ or when R is dominant. Hence, in those cases writing a constitution creates positive monetary value for the autocrat. On the other hand, if L is predicted to be dominant, it offers M and R their reversion value which puts them in no better place than with open conflict. Hence, incentives for writing a constitution would completely vanish. The same applies to the case where M with $w_M > \overline{w}$ is dominant. The following proposition summarizes our results:

Proposition 7 With negotiations between M and R or between L and R or with
 all three players, writing a constitution always has positive monetary value for the
 autocrat. If there is one dominant party in the constitutional reform process, writing
 a constitution only has positive monetary value for the autocrat in the cases where R
 is dominant or an M party opposed to redistribution is dominant. If L or an M party
 in favor of redistribution is predicted to be dominant, the autocrat is indifferent
 between writing and not writing a constitution.

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4 A Model of Intertemporal Constitutional Choice

723 The previous section has introduced a static model of constitutional choice where the autocrat can choose the default constitution for his successors without incurring 724 any cost such as being bound by the constitution himself. In practice, it is likely to 725 be a condition for a constitution to be acceptable that it actually has been adhered to 726 for some time before the regime's demise. In addition, the autocrat may not know 727 728 the precise date of his demise and, therefore, will want to write and implement the constitution at a time when the probability that he will be in his post for another 729 730 day is still greater than zero. On the other hand, the consequences of successfully handing down a constitution might be felt for a long time. Therefore, we think it is 731 reasonable to assume that the autocrat will attach non zero weights to the cost which 732 he incurs by not realizing his preferred policy outcome $(0, x^R)$ during the time for 733 which he has to abide by the constitution himself and to the gains his constituency 734 735 realizes during the time when his successors deliver a preferred policy outcome. 736

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We assume, that depending on the expected length of time in both states and the discount rate of the autocrat, these weights assume the values $(1 - \delta)$ and δ . Even though $(1 - \delta)$, which increases with the time in office, may itself depend on the choice of the autocrat's constitution, we ignore the possibility of such endogeneity. If the autocrat hands down a constitution, he choose the constitution (t, x) which gives him the highest total benefit, i.e. he maximizes

$$V_R(t,x) = (1-\delta)u_R(t,x) + \delta u_R(\Gamma(t,x)).$$

If he does not hand down a constitution, his total pay off is

$$V_R(\emptyset) = (1 - \delta)u^R(0, x_R) + \delta u_R^0.$$

By selecting a constitution $c' \notin I$ which is not binding during his term in office, the autocrat can realize the same pay off as with no constitution in the initial period and a pay off $u_R(\Gamma(c')) \ge u_R^0$ in the second period. The latter relationship follows because the successors want to choose a reform constitution $(t, x) \in I$.²³

In all cases, where the monetary value from writing a constitution in the static model is strictly positive, there must exist a constitution which the autocrat strictly prefers writing if the weight of the future is sufficiently great:

Proposition 8 If the weight of the future, δ , in the autocrat's objective function is sufficiently great, there is a binding constitution which the autocrat strictly prefers to hand down in all cases where there is a positive monetary value to writing the constitution in the static model.

Proof The autocrat can always choose to hand down the statically optimal constitution. For that constitution, the cost of commitment $u_R(x^*, t^*) - u_R(0, x_R)$ is finite and the benefit of commitment is strictly positive, i.e. $u_R(x^*, t^*) - u_R(\Gamma(c' \notin I)) >$ 0 if, as we have claimed, there is a positive monetary value to writing the constitution.

In all cases where there is no positive monetary value to writing a constitution the autocrat would only consider writing a constitution which is non binding during his term of office. This scenario comprises the cases where $w_M \le \overline{w}$ and L is dominant or bargains with M bargain and the case where L or an M party in favor of redistribution is dominant in the succeeding assembly.

Finally, even when choosing a binding constitution, the autocrat may not necessarily want to choose the stationary, statically optimal constitution. At least in those case where the statically optimal constitution does not involve choosing the point in *I* where *t* gets minimal, i.e. in the case where *L* is expected to negotiate with an *M* party opposed to redistribution, the autocrat faces a trade off between loosening the constraint during his term in office and creating stronger incentives for a low tax regime after his demise:

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 $^{^{23}}$ See the proof of Lemma 3.

Proposition 9 In the case where L negotiates with M and $w_M > \overline{w}$ there exists a critical weight δ^* such that if δ falls below that weight, the autocrat compromises on the statically optimal constitution.

Proof Let p^M be the probability that M proposes in the bargaining process. If the autocrat chooses the statically optimal constitution c^* , M proposes c^* and Lproposes c^* . Now suppose that the autocrat chooses a constitution with a slightly smaller tax rate such as z in Fig. 1. In that case, M continues to propose c^* , so the autocrat gets t^* with a weight of $p^M \delta$. If L proposes, she proposes t'|(t', x') in the intersection of m_z and the contract curve. $t' > t^*$, hence the outcome is worse for Rand it is weighted with $(1 - p^M)\delta$. However, $t^z < t^*$, hence by choosing z, the autocrat realizes a better outcome with a weight $(1 - \delta)$. Hence, for $\delta \to 0$, c^* results in a higher value of V_R and for $\delta \to 1$, z results in a higher value of V_R .

Obviously, for very small δ , the autocrat may not want to hand down a constitution. Therefore, the critical weight δ^* only becomes relevant if the distance between t^0 and the statically optimal constitution c^* is sufficiently large to induce the autocrat to write a constitution given δ^* . The following proposition generalizes this insight on the desirability of writing a constitution:

Proposition 10 The greater the power of R in the transition scenario and, hence, the smaller t^0 , the less value writing a constitution has.

Proof In all cases where there is a monetary value of writing the constitution, the dynamically optimal constitutional choice *c* is independent of t^0 . Hence, *R*'s benefit of writing a constitution, $u_R(\Gamma(c)) - u_R(t^0)$ is increasing in t^0 , i.e. the smaller t^0 , the smaller the benefit. Finally, $u_R(\Gamma(c)) \le u_R(t^0)$, hence the benefit must vanish as $t^0 \to 0$.

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5 Application to Different Experiences of Political Transition

⁸¹⁶ From our analysis two hypotheses emerge.

 If an autocrat expects that his own clientele will have influence on a succeeding constitutional assembly, he generally has incentives to write a constitution, although those incentives vanish if he expects that parties opposing redistribution will be able to impose their preferred policy without the left being able to object.

 2. If an autocrat expects that his own clientele will have no influence on a succeeding constitutional assembly, he only has strong incentives to write a constitution if he expects that the middle class prefers a low redistribution policy.

In the case of the Chilean constitutional project, it seems plausible that the con ditions for constitution writing in hypothesis 1—negotiations between the right and
 the middle class under a sufficiently strong perceived threat by the left—have been

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met or were believed to be met by the autocrat. That the left would not in a formal sense be involved in negotiations over a successor constitution was plausible from the point of view of the old regime because it did its utmost to keep it outside the political process. As it turned out, a substantial part of the left also objected to accept the constitution as a vehicle towards political reform.²⁴ If one accepts that one rationale of the Pinochet regime for embarking on the constitutional project was to build a bulwark against communism, as suggested by Montes and Vial (2005), the possibility of a left-wing threat must have been on the mind of the authors of the constitution. Protest movements such as the one led by copper miners in 1983 (see Collier and Sater 1996) and the so-called "protesta" movement which involved members of privileged, middle and working class (see O'Donnell and Schmitter 1986) must have reminded the junta of such a lingering threat.

An interesting question which remains is which the influence of middle class wealth has been in the case of Chile's successful constitutional transition. The moderation which the parties of the concertación showed in the transition process suggests that redistribution was not on the mind of the middle class which it represented. In an accompanying paper we discuss the relationship between middle class wealth and stable transition in the Chilean case in greater depth (Michalak and Pech 2012).

847 It is more difficult to see to which case the Egyptian transition corresponds. The 848 Muslim brotherhood, with its social welfare goals probably best fits the descrip-849 tion of leftist in the context of our model. On the other hand, the often secular 850 groups which started the street protests voiced aspirations which are more compati-851 ble with a middle-class mind set with an emphasis on improvement of opportunities 852 rather than the redistribution of existing wealth. Moreover, Egypt's Gini coefficient 853 is lower than Chile's and the wooing of the presidential candidate of the right for 854 the voters of this "middle class" further supports the view that Egypt best fits the 855 case of a country with a middle class opposed to redistribution. This would give 856 the autocrat strong incentives to write a constitution provided that he expects that 857 the constitutional reform process takes the form of multiparty bargaining. If, on the 858 other hand, the expectation is that the Muslim brotherhood plays a dominant role in 859 the constitutional reform process, there is no value at all to writing a constitution.

860 Therefore, the prediction of our model critically depends on the prior about the 861 bargaining strength of the different players in negotiating constitutional reform. In 862 the case where the Muslim brotherhood is expected to be dominant, we predict that 863 no constitution will be handed down. In the case where multiparty bargaining is 864 expected to take place, we predict a constitution will be handed down which might 865 be significantly amended in the bargaining process. Moreover, there are reasons why 866 the monetary value of constitution writing may be low even when the expectation is 867 multiparty bargaining: The autocrat may predict the military to be a strong player 868 with significant power to enforce a high default outcome in any transition process 869 or he may predict a long time horizon of his rule. In these cases he would have been 870 reluctant to chose a constitution which binds his own actions. Finally, it is unclear 871

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⁸⁷³ ²⁴For a dissenting view see Tapia (1987).

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how to interpret the fact that the constitution was formally revoked even by those players who would have stood to benefit to the extent that they expected to have a share in future bargaining over reform. An orthodox interpretation of this fact would be to say that non compliant constitutional practice during the autocracy turned out to be a bar to acceptability. However, our model suggests a second interpretation which is more in line with the observation that the property order established under the constitution was kept in place. This observation would correspond to the case of stable constitutional transition but with major amendments.

We lack observations where constitutional succession was tried in the face of a middle class supporting redistribution. On the other hand, our model predicts that such cases would be rare to observe. What our model highlights, though, is the importance of established property rights as an element of constitutional arrangements which the autocrat wants to protect. This may shed a light on the failure of stable constitutional transition in the case of former communist countries. This was not completely for the lack of trying because at least in the case of Poland we observe a transition through pact between the old and incoming power (see Munck and Leff 1997). However, in the case where a new constitution has to legitimize an emerging property order, the stakes are quite different from the cases discussed in this paper. Indeed, it will be more important for emerging property owners—often members of the former nomenclature—to secure their share in the emerging property rights before they can think about securing those property rights within a constitutional compact.

6 Further Discussion

902 The main lesson which emerges from the model and the preceding discussion is that handing down a constitutional compact offers benefits to the autocrat's clien-903 tele in almost all cases where multiparty bargaining is expected during the transi-904 tion process: If a constitution is accepted by its successors, it provides insurance 905 against being excluded from transition bargaining as long as the middle class is 906 907 opposed to redistribution and improves the bargaining position of the clientele relative to representatives of other classes. There is no such benefit if during transi-908 tion one party is able to impose its preferred outcome. This suggests that there are 909 economic and political conditions which facilitate successful constitutional transi-910 tion. If the middle class is sufficiently wealthy to oppose redistribution, it serves 911 912 as a natural proxy for the autocrat's clientele during the transition process. Furthermore, only if society is sufficiently heterogeneous such that there are different 913 groups with diverging interests which find it necessary to reach compromise in the 914 transition process is there a role to play for any inherited constitutional template. 915 The latter point suggests that transitions such as in Poland or in South Africa where 916 917 Solidarnocz and the ANC emerged as main players were less open to be manipulated by autocratic constitutional choice than the transitions discussed in this pa-918 919 per. 920

Appendix

In this appendix we show that in the case where L and M bargain and $w_M > \overline{w}$ the contract curve is vertical for 0 < t < 1. For convenience, we define the income gap of each group relative to average available income as $\Delta_M = w_M - \overline{w} \leq 0$, $\Delta_L = w_L - \overline{w} < 0 \text{ and } \Delta_R = (1 - \gamma)w_R - w > 0.$

For 0 < t < 1, *M*'s proposal $P^{M \to L} = (t', x')$ given $c = (t^*, x^*)$ solves the constrained optimization problem

$$\max\left[v_M(x) + (1-t)w_M + t\overline{w}\right] \quad \text{s.t. } v_L(x) + (1-t)w_L - t\overline{w} \ge u(t^*, x^*).$$

Writing $\mu(x') = \frac{\frac{\partial v_M(x')}{\partial x}}{\frac{\partial v_L(x')}{\partial x}} \le 0$, the first order conditions for an interior solution of this problem, x' satisfies

$$\mu(x') = \frac{\Delta_M}{\Delta_L} \tag{3}$$

and the tax rate is determined as the residual satisfying

$$t' = \frac{v_L(x^*) - v_L(x')}{(-1)\Delta_L} + t^*.$$
(4)

At x^M , $\mu(x^{M \to L}) = 0$ and at x^L , $\mu(x^{M \to L}) \to -\infty$. By continuity of μ , a so-944 lution x' satisfying the first order conditions uniquely exists with $x' \in [x^M, x^L)$. As 945 $\frac{\partial v_M(x')}{\partial x} = -2|x' - x_M|$ and $\frac{\partial v_L(x')}{\partial x} = 2|x' - x_L|$, x' only depends on the ratio $\frac{\Delta M}{\Delta x}$. 946 By construction, x' is the policy level which is Pareto-optimal for L and M. Call 947 948 this policy realization x^e . It is easy to show that L, when proposing to M selects the 949 same policy x^e .

950 The optimal proposal can be interpreted as follows: x^e is the policy which would maximize the joint pay off for L and M given that transfers between M and L can 951 only be achieved through the linear tax system: $\frac{\Delta_M}{\Delta_L}$ is the rate at which *M*'s income is converted into *L*'s income as the tax rate increases. Note that a transfer rate of 952 953 greater than -1 signifies an involuntary contribution of R.²⁵ If the ratio is -1/2, it 954 955 costs half a unit of M's income to increase L's income by one unit. μ is the rate at 956 which M's utility from consuming x increases per unit of utility decrease by L. In an 957 optimum, M's gain has to be equal to M's cost of compensating L at an admissible 958 tax rate $t \in (0, 1)$.²⁶ 959

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²⁵One can show that the ratio is greater than -1 if $\frac{w^L + w^M}{2} < (w^M - w^L)$, i.e. if *M*'s wealth exceeds *L*'s wealth by more than average wealth, where the latter is calculated looking at *M* and *L* 961 962 only. To demonstrate this point, note that $\frac{\Delta^M}{\Delta^L}$ can be written as $\frac{w^M + (w^M - w^L) - w^R}{w^L - (w^M - w^L) - w^R}$ 963

²⁶If $\Delta^M / \Delta^L = -1$, we obtain the familiar policy choice rule of selecting x half way between the 964 965 bliss points, see e.g. Baron and Diermeier (2001).

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