

Norman Schofield · Gonzalo Caballero · Daniel Kselman *Editors*

Advances in Political Economy

Institutions, Modelling and Empirical Analysis

This book presents latest research in the field of Political Economy, dealing with the integration of economics and politics and the way institutions affect social decisions. The focus is on innovative topics such as an institutional analysis based on case studies; the influence of activists on political decisions; new techniques for analyzing elections, involving game theory and empirical methods.

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93 binding constraint on the dealings of the junta (see Barros 2002). Most significantly,
94 transition took place because the regime, after some hesitation, obeyed the letter of
95 the constitution. In Egypt, on the other hand, the transition of power was brought
96 about by street protests. Common to both countries is the influence exercised by
97 parties and organizations associated with the old regime during the transition period.
98 In Egypt this was mainly the military which served as a power broker during the
99 revolution whilst in Chile these were the parties of the right which bargained in the
100 shadow of power which was projected by the military.

101 In this paper, we see a preexisting constitution as a natural focal point in the
102 transition process which can serve both as a reference but also as a reversion point
103 for constitutional reform. The reform process in which a society attempts to newly
104 arrange its social compact creates many uncertainties. The negotiating parties may
105 end up in a game of attrition where each tries to secure concessions from the other
106 parties involved in the process. The attempt of constitutional reform may end in
107 open conflict if the participation constraint of one of the players is not satisfied.
108 For those reasons, the elected successor parties which are interested in changing the
109 constitution may yet agree on the preexisting constitution as a default outcome in
110 order to insure against the risks otherwise involved in negotiating a new constitution.

111 If the autocrat expects a succeeding constitutional assembly to use a preexisting
112 constitution in that way, it creates an avenue through which the autocrat, in writing a
113 constitution, can influence the power play after his demise. In this paper we assume
114 that the interest group of the property owning class can exert sufficient influence on
115 the autocrat to make him write a constitution on their behalf.

116 We show, first of all, that constitutions exist which are stable in the transition
117 process. Whether or not the autocrat strictly prefers to hand down a constitution
118 depends on who he expects to bargain over constitutional reform. If the autocrat
119 expects that the future constitutional assembly is dominated by parties which favor
120 redistribution, he does not want to bind himself by the constitution. If not a single
121 party dominates the constitutional assembly and the middle class opposes redistribu-
122 tion or it is expected to forge a coalition with the right dominate, stable constitutions
123 exist which are in the interest of the autocrat. Here, our model provides a theoretical
124 underpinning for the frequently stated idea that a middle-class which is interested in
125 maintaining property rights is a prerequisite for constitutional stability.⁶

126 Moreover, we show that if the autocrat can hand down a constitution immediately
127 before his demise, he may choose to write a stationary constitution, i.e. a constitu-
128 tion which he predicts to be accepted by a succeeding constitutional assembly with-
129 out further amendment. Only if the autocrat expects that he will have to abide by the
130 constitution himself for some time, he will compromise on the stationarity property.
131 We also argue that, theoretically, a succeeding assembly will elect the prior con-
132 stitution as default bargaining outcome, irrespective of what it says. Hereby, cases
133 are possible where a preexisting constitution is accepted in the reform process even
134 when it has hardly constrained the autocrat and is significantly amended in the re-
135 form process.

136
137 ⁶See e.g. Ordeshook (1997), Easterly (2001).
138

1.1 Related Literature

Looking at the selection of rules in general and the constitution in particular in terms of manipulating strategic situations to achieve desirable outcomes was advanced by Riker (1986) with his analysis of the events leading to the adoption of the American constitution.⁷ Our paper models constitutional choice in terms of the strategic selection of a status quo point in a spatial model. This places our model in a strand of literature which derives equilibria of the political game which are predicated on previous choices such as the move of an agenda setter or the selection of institutions. Tsebelis (2002), for example, shows how institutions determine the set of veto players within a spatial policy framework and thus shape policy outcomes.⁸ Whilst constitutional norms typically provide general rules for policy selection rather than making policy choices more directly, the selection of institutions together with the legitimization of a status quo policy has implications for policy outcomes. In the case of Chile and Egypt, one can argue that choices over political institutions were often clearly aimed at preventing or promoting particular policy outcomes.⁹

In our framework, a constitution provides a focal point which enables agents to coordinate on Pareto-better outcomes compared to outcomes achieved in the absence of a constitution. A different way of understanding constitutions as coordination devices—understood as “red-lines” the crossing of which agents accept as triggers for coordinated action—has been introduced by Weingast (1997). Other approaches focus on the role of constitutions as commitment devices by which a government can credibly pledge to uphold property rights (North and Weingast 1989) or an autocrat to give legally enshrined guarantees to his followers (Myerson 2008). Moreover, Grossman (2002) gives conditions under which it is possible to design constitutions with self-enforcing properties—i.e. where agents abide by constitutional processes—when facing the alternative of descending into conflict. Pech (2009) and Naqvi et al. (2012) focus on self-enforcing properties of constitutions which contain the rule of law as a mechanism. Another strand of literature looks at constitutions in terms of the properties and desirability of the voting rules it provides.¹⁰ Finally, in an accompanying paper, Michalak and Pech (2012) provide a full equilibrium analysis which extends and applies the present framework to the

⁷See also Riker (1996). Schofield (2002) elaborates on this logic and applies it to the evolution of the American constitution.

⁸In a more general setting one may ask how the historical and/or constitutional choice of rules determines the selection of rules which at later stages emerge from the political game. See Barbera and Jackson (2004) and Lagunoff (2007).

⁹In the case of Chile, parties of the left were not admitted under the Pinochet constitution but they were admitted under the reform constitution, provided they were not antisystem. The decision of the Supreme Council of the Armed Forces to dissolve a parliament dominated by the Muslim brotherhood was a move which interfered with the institutional set-up of post-revolutionary Egypt but was mainly aimed at preventing parliament from selecting policies which were against the interests of the military rulers.

¹⁰See, for example, Gersbach (2004) and Barbera and Jackson (2006).

185 Chilean transition process. That paper, in more detail, focuses on the significance of
 186 middle class wealth for constitutional stability.

187 188 189 *1.2 Outline of the Paper*

190
191 Section 2 sets up the model. Section 2.1 presents negotiations in the absence of a
 192 prior constitution or after its rejection. Section 2.2 details bargaining on constitu-
 193 tional reform in the presence of a prior constitution. Section 2.3 derives optimal
 194 constitutions for the autocrat. Section 3 analyses the static constitutional choice
 195 problem of the autocrat. Section 4 extends our results to a dynamic setting. Sec-
 196 tion 5 discusses applications to different experiences of political transition and de-
 197 rives conclusions from our framework.

198 199 200 **2 The Model**

201
202 A constitution is a pair (t, x) , representing a country's basic choices¹¹ on redistribu-
 203 tion—associated with a tax rate t —and social policy x which may be measured
 204 along a scale representing liberalism versus authoritarianism, secularism versus
 205 a greater role for religion in public life or the relative importance of the so-
 206 cial solidarity principle versus the free market principle.¹² The policy space \mathfrak{S} is
 207 $T \times X = [0, 1] \times \mathfrak{R}$.

208 There are three socio-economic groups, the clientele of the autocrat, R , the mid-
 209 dle class, M , and the working class, L . We do not explicitly model the military as
 210 a player. In the Chilean case the junta emerged from within the military. Therefore,
 211 one can identify the military in the aftermath of transition as a lingering aspect of
 212 the junta and closely associate it with the autocrat's clientele. In Egypt, autocratic
 213 government and military were organizationally separate but the military leadership
 214 shared interests with the possessing class and can, for the purposes of our model, be
 215 associated with the clientele of the autocrat. In both cases we can see some harmony
 216 of interest between the military and what we modelled as the autocrat's clientele.
 217 The military is a particularly powerful player when the option of freely negotiating
 218 the constitution degenerates into conflict. In this case, we expect the cost of free ne-
 219 gotiations to be especially high to everyone, but the more powerful the military, the
 220 more limited will the possibility of achieving redistribution in the case of conflict be.

221 Furthermore, we assume that the autocrat perfectly internalizes the preferences
 222 of his clientele. For this assumption to be reasonable, either the clientele must be
 223 able to offer a perfect incentive contract to the autocrat, by which it offers support
 224

225
226 ¹¹We do not discuss in this model rules governing post constitutional choices such as electoral
 227 rules. Stability properties of electoral rules are discussed, for example, in Barbera and Jackson
 228 (2004).

229 ¹²Kitschelt (1996) finds that the majority of policy choices can be subsumed under a distribu-
 230 tional/communitarian dimension.

in exchange for favorable constitutional rules or, alternatively, the autocrat “sells” those advantages to his clientele in exchange for support.

For simplicity, we assume that all groups have the same size when calculating the effects of different redistributive policies. Gross incomes of representatives of each group are $w_R > w_M > w_L$. The utility function of a citizen belonging to class i is $u_i = \alpha_i v_i(x) + w_i^n$ where w_i^n is citizen i 's net income after taxes and transfers and where $v_i = -|x - x_i|^2$ captures the loss associated with realizations on the social policy scale where x_i , $i = L, M, R$ represents the bliss point of group i . We assume that $x_M < x_L$, $x_R \neq x_M$ and x_L yet $\alpha_R = 0$. In order to uniquely assign bargaining outcomes when R and M agree on t , we assume that R 's income motive is overwhelming yet for two allocations where the income realization is the same, R strictly prefers the allocation where x is closer to x_R .¹³

The net income distribution is obtained from taxing income available for redistribution at a tax rate $t \in [0, 1]$. Proceeds from the tax finance a lump sum transfer which is evenly distributed among members of the three groups.¹⁴ Thereby we impose equality in transfers and rule out the possibility of one socio-economic class enriching itself at the expense of some other class. This assumption is less problematic when we construct outcomes for the case of free negotiations over the constitution: The reversion wealth level which we associate with this scenario may be thought of as the level of wealth which agents expect to be able to defend or appropriate in a situation of conflict. Yet for the case where the assembly bargains over constitutional reform, we must specify the set of admissible choices. In restricting the bargaining space to choices of t and x , we effectively assume that accepting the prior constitution as a template for negotiations implies acceptance of the property rights which were defined under that constitution. Once the property order is accepted in principal, redistribution of property can only be achieved through general rules, i.e. general taxes.¹⁵

Inserting our assumption on feasible tax policies into the utility function for group i and denoting average income for redistribution \bar{w} , we obtain

$$u_i(t, x) = \alpha v_i(x) + (1 - t)w_i + t\bar{w}.$$

In all societies we know of, average income exceeds the income of the median citizen. This observation leaves the political theorist struggling for an explanation

¹³We effectively assume that R has lexicographic preferences where the utility function—with some abuse of notation—captures the net income part only.

¹⁴Assigning the choice of a tax policy to the constitutional stage appears to be counterfactual at first sight, because tax policies are normally determined by simple tax laws. However, it turns out that for some bargaining scenarios such as freely bargaining the constitution, the choice reduces to selecting either a tax rate of 1 or a tax rate of zero. The proper way of thinking of such an extreme choice is the election of the economic order of a country. Such a choice is clearly on a constitutional level.

¹⁵Such acceptance does not in general rule out that individual cases of “unfair” enrichment under the old regime are tried in court but it provides assurances to the vast majority of beneficiaries of the old system that expropriative measures by the new regime will not affect their property alone but would have to simultaneously affect the property of the middle class as well.

of the fact that in democratic societies we should have majorities in favor of expropriation when we hardly observe expropriating tax policies in practice. In order to allow for the possibility of a political equilibrium with non expropriating taxation for empirically relevant income distributions we make the assumption that only a share $(1 - \gamma)$ of w_R is actually available for redistribution. If w_R consists mainly of productive capital, agency problems involved in its nationalization are likely to reduce its value. In practice, γ is likely to depend on the kind of industry in which the capital is deployed. If the capital is mostly invested in the natural resources sector, γ is likely to be low. We assume $(1 - \gamma)w_R > w_M$ and define average income available for distribution as $\bar{w} = \frac{(1-\gamma)w_R + w_M + w_L}{3}$. As $\bar{w} > w_L$, the left always favors redistribution.

2.1 Freely Negotiating a New Constitution

We assume that in the absence of a default constitution, the outcome of the constitutional reform process can only be predicted with some uncertainty. That is, independently of how precisely the constitutional process unfolds, from an ex ante point of view the expectations over the final outcome take the form of a lottery $\ell = \{(x, t, \pi(x, t))\}$ with probability weights $\pi(x, t) < 1$ for all (x, t) . The continuation pay off of each player $i = R, M, L$ when entering the constitutional reform process in the absence of a default constitution is $Eu_i(\ell)$. Throughout the paper we maintain that at any point a player who is dissatisfied with the outcome of the constitutional reform process can reject this outcome and revert to freely negotiating a constitution, ensuring for himself a default outcome of $u_i^0 = Eu_i(\ell)$. Such an assumption is compatible with scenarios where the draft reform constitution requires, formally or factually, widespread support in a referendum or where the free negotiation process takes the form of open conflict and such conflict can be precipitated by any party. We define (x^0, t^0) as the expected value of x and t for this lottery. From concavity of v and linearity of u in t it follows that $Eu_i(\ell) < u_i(x^0, t^0)$ for all i , a result which we use in the proof of Lemma 2 where we show that the set of outcomes which are generally acceptable over freely negotiating the constitution is non empty and contain, in particular, the policy point where the expected values of x and t are offered. More formally, we define the set I of outcomes which are preferred by all players to the lottery of freely negotiating x and t , ℓ :

Definition 1 I is the set out feasible outcomes which are weakly preferred by all players to freely negotiating the constitution with associated lottery ℓ , i.e. $I = \{x, t \mid (x, t) \succsim_i \ell \text{ and } (x, t) \in \mathfrak{S}\}, i = L, M, R$.

Note that I has a closed graph. In what follows, we focus on the case where $1 > t^0 > 0$. The case where $t^0 = 0$ is trivial: R can enforce its preferred outcome in terms of income realization and the incentives for writing a constitution would be minimal. The case $t^0 = 1$ corresponds to a situation where L can enforce its

323 preferred outcome in the transition and R can do nothing about it. Again, incentives
324 for writing a constitution would be minimal. In the intermediate range, the following
325 lemma holds:

326 **Lemma 2** For $1 > t^0 > 0$, the set I is non empty and convex.

327 *Proof* By concavity of v , at least the point x^0, t^0 must be in I . Because v is strictly
328 concave, I is not vanishingly small, i.e. there is $\varepsilon > 0$ such that L strictly prefers to
329 get $(x^0, t^0 - \varepsilon)$ with certainty over a lottery with expected outcome x^0, t^0 . As M
330 and R also prefer this point, it must be in I . By convexity of preferences and \mathfrak{S} , I is
331 also convex. \square

332 Ignoring the trivial case $t^0 = 0$, the result of Lemma 2 only hinges on the as-
333sertion that expectations over the outcome from freely negotiating the constitution
334 take the form of a lottery ℓ which is common knowledge to all players. One possi-
335 ble way of consistently modelling a bargaining game which provides such a lottery
336 is to assume that each party is given a chance to implement its preferred outcome
337 with a probability P^j .¹⁶ In the case where this opportunity arises, rationality dic-
338 tates that the party imposes its preferred policy point. Thus, if L wins, the policy
339 realization (t, x) is $(1, x^L)$, if M wins, the policy realization is $(1, x^M)$ for $w_M \leq \bar{w}$
340 and $(0, x^M)$ for $w_M > \bar{w}$ and if R wins, the policy realization is $(0, x^R)$. Thus, for
341 party i , expected utility from freely negotiating the constitution is

$$342 V_i^0 = P^R v^i(x^R) + P^M v^i(x^M) + P^L v^i(x^L) + (1 - P^L)w^i + P^L \bar{w} \quad (1)$$

343 if $w_M > \bar{w}$,

$$344 V_i^0 = P^R v^i(x^R) + P^M v^i(x^M) + P^L v^i(x^L) + P^R w^i + (1 - P^R)\bar{w} \quad (2)$$

345 if $w_M \leq \bar{w}$, for $i = L, M, R$.

346 We can modify pay offs by admitting a conflict cost K_i which is incurred if free
347 negotiations take the form of open conflict. Without changing any of the results of
348 this paper we may extend the model to cover the case where players form a priori-
349 coalitions before entering conflict. For example, L and M may form a coalition
350 against R and expect to realize a point on their contract curve if they win. Note that
351 our model does not attempt to explain conflict but instead uses a conflict scenario to
352 rationalize a settlement in the shadow of conflict.

353 2.2 Negotiating a Constitution in the Presence of c

354 Suppose a constitution c specifying a tax/policy combination (t, x) has been handed
355 down by the autocrat. Moreover, suppose that a pre-determined set of players nego-
356 tiates over constitutional reform or de-novo design of the constitution. This set of

357 ¹⁶For other specifications, see Michalak and Pech (2012).

369 bargainers is determined exogenously to the model. In what follows we focus on the
 370 case where two parties bargain. Sections 3.1 and 3.2 discuss in greater detail special
 371 applications of the two party bargaining game. Section 3.3 gives an overview of the
 372 remaining cases. The different cases where one party is in a position to impose the
 373 constitution or all three parties bargain over constitutional reform are straightfor-
 374 ward extensions of the two-party bargaining model.¹⁷

375 Once the pre-determined bargainers accept c rather than reverting to freely ne-
 376 gotiating the constitution, c serves as the default outcome which prevails if the bar-
 377 gainers are unable to find an agreement on the reform constitutional draft. Recall,
 378 however, that any group in society still has the option to revert at any time to the
 379 non cooperative outcome.

380 We think of the bargaining procedure as taking the simplest form of a two player
 381 random proposer game where the proposer makes a take-it-or-leave-it offer to the
 382 other player. Let $\Gamma_{ij}(c)$ be a correspondence which assigns to each choice of c
 383 as possible outcomes for the bargaining game between i and j , the equilibrium
 384 proposals submitted by i as a proposer, $P_{i \rightarrow j}$, and submitted by j as a proposer,
 385 $P_{j \rightarrow i}$. Naturally, $i, j \in \{R, M, L\}$ and $i \neq j$. Note that $P_{i \rightarrow j}$ and $P_{j \rightarrow i}$ might be set
 386 valued although they turn out to be singular in our application. All our results hold
 387 under the assumption that the ex ante probability of making a proposal is strictly
 388 positive for each player in a coalition which is a mild assumption as it only requires
 389 to exclude the case where agents are predicted to have no bargaining power at all
 390 when they enter the coalition which bargains over constitutional reform.

391 If $c \in I$, $u_j(c)$ is the default utility which player j realizes when a proposal
 392 is rejected. Hence, each player i , when making a reform proposal to j , chooses for
 393 $P_{i \rightarrow j}$ a pair $(x, t) \in I$ which maximizes $u_i(x, t)$ subject to $u_j(x, t) \geq u_j(c)$. If $c \notin I$,
 394 rejecting a proposal results in implementing an outcome c which will ultimately be
 395 vetoed by at least one player. Hence, a rejection of a proposal when the default
 396 constitution is $c \notin I$ results in every agent realizing his or her continuation pay
 397 off from descending into conflict, V^0 . By this device, players who stand to benefit
 398 from bargaining in the constitutional reform process have incentives to accept even
 399 constitutions outside of I . Yet, as the following lemma shows, in the static model
 400 with two players bargaining, the autocrat will choose a constitution in I whenever
 401 he has a strict preference over constitutions in I .

402 **Lemma 3** *If there are two bargainers and the autocrat uniquely prefers a constitu-*
 403 *tion $c^* \in I$, this constitution is strictly preferred over any constitution not in I .*

405 *Proof* By construction of $\Gamma(c)$, any $c \in I$ is strictly preferred to the default outcome
 406 at least by the players involved in constitutional bargaining. If $c \notin I$, a proposal can-

408
 409 ¹⁷We do not explicitly model elections but rather assume that the representatives of each group
 410 can secure support of their clientele. Relative strength of representation and voting rule in the
 411 assembly determine the set of effective coalitions in the assembly. Moreover, given the set of
 412 effective coalitions—which is non empty because the grand coalition always is effective—there is
 413 a clear prediction which coalition forms, independently of the default constitution. See Michalak
 414 and Pech (2012) for endogenous coalition formation.

415 not be rejected against c without precipitating conflict. With $c \notin I$, $\Gamma_{ij}(c)$ assigns i 's
 416 and j 's ideal points in I . For i and j a lottery on $\Gamma_{ij}(c)$ with non zero weights must
 417 strictly dominate the alternative of realizing the default outcome from conflict with
 418 certainty and rationality commands that they accept c . Note that by construction of
 419 $\Gamma_{ij}(c)$, $c \notin I$ does not constrain the proposer other than by requiring him or her to
 420 choose a proposal in I . Yet it constrains the responder in rejecting a proposal. If
 421 there uniquely exists a constitution $c^* \in I$ which is preferred by the autocrat when
 422 the choice of c is restricted to be in I , the autocrat must wish to constrain at least
 423 one proposer to select not the proposer's ideal point in I because he cannot agree
 424 with the outcome proposed by both proposers.¹⁸ Hence, a constitution which does
 425 not constrain proposals, i.e. any constitution not in I , is strictly dominated by the
 426 constitution $c^* \in I$ which does. \square

427
 428 This lemma extends to the case where only one party dominates the reform process.
 429 The dominant party strictly prefers the constitution over its default outcome
 430 and the other parties at least weakly prefer a constitution over their default out-
 431 come. It also extends to the case of unanimity where all c in I are at least weakly
 432 preferred by all parties over the default outcome. In the remainder of the paper we
 433 consider I as the choice set of the autocrat and obtain unique optimal choices in the
 434 cases of Propositions 5 and 6. Using the lemma, we can conclude that these constitu-
 435 tions are also strictly preferred over constitutions which are not in I .¹⁹ Proposition 7
 436 considers a case where L dominates the constitutional assembly and no optimal
 437 constitutional choice exists in I . In this case, the autocrat may choose a constitution
 438 $c \notin I$. Yet for this case we find that the autocrat always ends up with his default out-
 439 come, hence the autocrat is not only indifferent with respect to which constitution
 440 to write but he is also indifferent between writing and not writing a constitution.

441 442 443 **2.3 Optimal Constitutions** 444

445 The way the bargaining game is set up, given c the two bargainers have incentives to
 446 realize a point on their contract curve or, if this violates $(x, t) \in I$ to realize a point
 447 on the boundary of I . The following proposition characterizes (strictly) optimal
 448 constitutions of the static game as stationary constitutions, i.e. constitutions which
 449 are not amended in the bargaining process:
 450

451 **Proposition 4** *When the autocrat can directly propose a constitution without incur-*
 452 *ring a cost, for any constitution c which is not stationary, i.e. for which $\Gamma(c) \neq c$,*
 453 *there exists a stationary constitution which is at least as good for the autocrat*
 454 *as c .*

455
 456 ¹⁸Recall that $x_R \neq x_M$, so even if M and R bargain and agree on t , they still disagree over x .

457 ¹⁹In the case of Proposition 6 where L bargains with an M party in favor of redistribution the
 458 autocrat has a unique preference of $c \in I$ but the preference is only in terms of policy realization
 459 and, hence, of a second order magnitude.
 460

Proof Define the Pareto-set $B_{ij}(c)$ for the bargainers i and j given the default constitution c . First suppose that $B_{ij}(c) \subset I$. In that case, proposals coincide with points on the contract curve, i.e. $P_{i \rightarrow j}$ maximizes u_i given $u_j(c)$ and $P_{j \rightarrow i}$ maximizes u_j given $u_i(c)$. If one proposal P includes a lower value of t than the other, the autocrat is better off by selecting this proposal P instead of c . Setting $c = P$ guarantees that each proposer has to propose c when this is the default outcome. If the proposals $P_{i \rightarrow j}$ and $P_{j \rightarrow i}$ include the same value of t , the autocrat is as well off if he selects either $P_{i \rightarrow j}$ or $P_{j \rightarrow i}$ instead of c .

Next suppose that $B_{ij}(c) \cap I \subsetneq B_{ij}(c)$. In that case, the constraint that the proposal has to be in I may be binding. Yet a proposal P maximizes the proposer's utility given that it is in $B_{ij}(c) \cap I$. Note that $B_{ij}(c) \cap I$ is convex. When L or M is proposal maker, preferences of the proposal maker are strictly convex and the optimal proposal is uniquely defined. If this point is selected as default, the constitution is stationary. If R makes a proposal the binding segment of the boundary of I is strictly convex unless it coincides with the $t = 0$ -line.²⁰ In either case, R has a unique proposal which, if selected as default results in a stationary constitution²¹ and we are left with three possibilities: a) In point P constraint $B_{ij}(c)$ is binding and I is not. This coincides with the case where $B_{ij}(c) \subset I$. b) Constraint I is binding and $B_{ij}(c)$ is not. In that case, with P the proposer realizes the highest utility in I . If the autocrat selects $c = P$, either proposer must propose point c when it is the default outcome. c) Both constraints are binding. This case coincides with case b). \square

This proposition allows us to focus on stationary constitutions when looking for optimal constitutions for the autocrat when discussing the static constitutional choice problem. In the dynamic constitutional choice problem, the autocrat incurs a cost when committing to a constitution and, as shown in the proof of Proposition 9, Proposition 4 does not apply.

3 Static Constitutional Choice

In this section we derive the optimal constitutional choice for the autocrat if he believes that his demise is imminent. As we know from Lemma 3, any default constitution c will be accepted by the bargainers. Yet only if the constitution is in the set I , will it actually impact on the successor's decision other than by requiring them to propose amendments only in I . Hence we are going to focus on the autocrat's constitutional choice as the problem of picking a constitution from within the set I .

²⁰To see that R 's proposal is unique when the $t = 0$ line is binding, recall that by our assumption that R 's preferences are lexicographic, R 's preferred point on the $t = 0$ -line is uniquely determined. Hence, the optimal constitutional choice coincides with this point.

²¹To see that the point $c = (0, x^R)$ is stationary when selected as default in the case where $t = 0$ is the constraint on R 's proposal, observe that R as a responder will reject any proposal which does not coincide with c .

Finally, from Proposition 4 we know that we can focus on stationary constitutions, i.e. constitutions which the predecessors accept with no amendment.

3.1 *M and L Negotiate on Constitutional Reform*

Suppose it is known that after transition *M* and *L* negotiate over constitutional reform and suppose in particular that this is known to the autocrat when he writes the status quo constitution. From the perspective of the autocrat's clientele, the case where *R* is excluded as negotiator represents a worst case scenario. So it is not implausible that, when writing the constitution, the autocrat focuses on that scenario in order to provide insurance against its consequences.

During the Egyptian revolution it was widely expected that it was ultimately up to the street protesters and the Muslim brotherhood to negotiate the future constitutional compact. If we identify the Muslim brotherhood with its welfare goals as the *L* party and the street protesters with their middle class ambitions as the *M* party,²² we can explore the possible impact which the choices of an initial agenda setter—be it Mubarak or the military—would have had on the outcomes which the other two groups could have obtained.

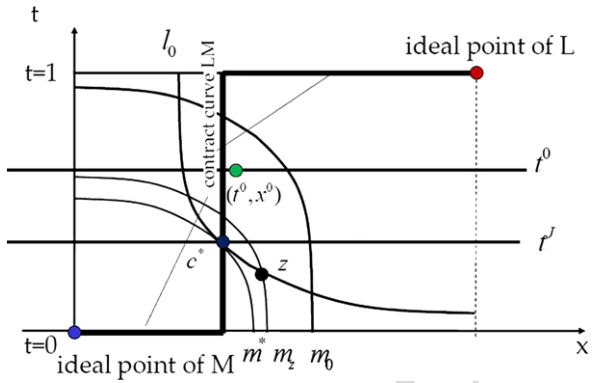
3.1.1 Case $w_M > \bar{w}$

Initially we suppose that the lower boundary of the set *I* intersects the vertical part of the contract curve between *L* and *M*. That the contract curve is a vertical line for $0 < t < 1$ is demonstrated in the appendix. In that case, the autocrat wants to choose c^* such that c^* coincides with the intersection of the lower boundary of *I* and the contract curve in Fig. 1. To see the latter point, suppose that the autocrat picks a constitution at a point such as *z* which also is on the boundary of *I* and corresponds to a lower tax *t*. As the boundary of *I* coincides with l^0 , *M* must realize a lower indifference curve m_z . If *L* proposes, she will propose a higher tax at the point where the contract curve intersects with m_z . This comes with a higher tax rate. If *M* proposes, she will propose the point where l^0 intersects with the contract curve. Here the tax rate is the same as with c^* . Hence, as long as *L* proposes with positive probability, it is better to select c^* in the point where l^0 intersects with the contract curve.

We can exclude the case where the lower boundary of *I* intersects with the upper horizontal part of the contract curve (i.e. where $t = 1$) because this would imply $l^0 = 1$. So consider the case where the lower boundary of *I* intersects with the lower horizontal part of the contract curve (i.e. where $t = 0$). In that case, the autocrat may select any point on the horizontal part of the contract curve and he will choose to

²²See Sect. 5 for a more detailed discussion of these claims.

Fig. 1 Optimum constitution when L is expected to negotiate with M over reform and $w_M > \bar{w}$



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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 $w_M > \bar{w}$, 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 $w_M \leq \bar{w}$

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, negotiations 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 $t = t^0$, independently 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 writing 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 $w_M \leq \bar{w}$, 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.*

Proof See discussion above. □