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Political Conflicts, the Role of Opposition Parties, and the

Limits on Taxation

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Abstract

In democratic systems, the rich have diverse channels through which they can influence

policies. In a model of taxation, I study the capacity of the rich to constrain the fiscal choice

of a government by starting a costly political conflict (for example, a press campaign), which

imposes a cost on the government and influences the fate of the government's fiscal plan.

I show that the government's tax proposal depends critically on the marginal disutility of

taxation for the rich. This approach provides a new rationale for the empirically documented

U-shaped relationship between inequality and taxation. It also highlights a new role for

opposition parties. By agreeing to bear part of the cost of a political conflict in exchange for

compromise, the opposition makes Pareto-improving arrangements possible.

Keywords

Political conflict; opposition party; coalition; taxation

1

In May 1924 in France, a coalition of left-wing parties the Cartel des Gauches won the general election with a promise to tackle a mounting public debt problem through capital taxation. In July 1926, as demonstrations were staged in front of the French Parliament and monetary panic spread, the Cartel was replaced by a center-right coalition. During the Cartel's tenure, the rich and the business community strongly opposed any attempt by the government to impose a capital levy. This opposition took the form of capital evasion and a massive press campaign against a capital tax, eventually swaying public opinion against the governing coalition.¹

It is well understood that the poor have the capacity to constrain the rich in autocracies (Acemoglu and Robinson, 2005). In unconsolidated democracies, the rich might exert undue influence by threatening coups or unrest (Ellman and Wantchekon, 2000; Dal Bó and di Tella, 2003). In consolidated democracies, the rich can use contributions (e.g., Rodriguez, 2004) or independent expenditures (as the Koch brothers' support for Governor Walker illustrates). As the example of the *Cartel* illustrates, the rich also have the capacity to constrain the fiscal policy of a government opposed to their interests by taking actions that hurt the party or coalition of parties in power.

In this paper, I study this last channel of influence in a stylized model of taxation. A government (referred to by the pronoun "he" throughout) chooses a tax level under the threat of political conflict by the rich who dislike redistribution. A political conflict is costly to organize for the rich, and this cost is their private information (for example, it can depend on their ability to coordinate their actions). It has two effects on the government. First, it imposes a direct utility loss (for example, due to the cost of mounting a public relation campaign to defend the government's plan or the increased risk of losing the next election). Second, with some probability, a political conflict forces the government to abandon his fiscal project (for example, it might sway public opinion against the government's tax proposal as in the case of the Cartel des Gauches).

The government chooses his tax rate to equate the marginal gain from a higher tax rate with the marginal cost of increased risk of a political conflict. Consequently, a key variable to explain the government's tax proposal is the marginal disutility of taxation for the rich. When the marginal disutility is low, the government proposes his ideal tax rate; when it is high, the government prefers to maintain the status quo tax rate; in the intermediate range, the government compromises with the rich.

The introduction of political conflict has two important consequences for our understanding of democracy. First, it highlights an understudied role of opposition parties. Like the rich, the opposition (referred to by the pronoun "she" throughout) favors a tax rate lower than the status quo. Like the government, she does not know the cost of a political conflict to the rich. The government can form a coalition with the opposition. In this case, the opposition bears part of the cost of a political conflict in exchange for a more moderate fiscal proposal (endogenously determined). The government always chooses to form a coalition with the opposition when the marginal disutility of taxation for the rich is sufficiently high. The risk of a political conflict is high, and a reduction in its cost is advantageous for the government even if it means passing a more moderate proposal.

I show that the possibility to form a coalition with the opposition makes *Pareto-improving* arrangements possible. The government is better off since he has a greater choice set. The opposition is never worse off since she would reject any fiscal proposal to form a coalition that leads to a lower expected payoff than if they were not to form a coalition. The rich are better off because the coalition leads to a more moderate tax proposal that benefits them directly.

Second, this paper explains why taxation does not necessarily increase inequality, as has previously been empirically documented (for a review, see Alesina and Glaeser, 2004). Because of the risk of political conflict, the level of taxation decreases with the marginal disutility of taxation for

the rich (with or without a government-opposition coalition). All else equal, an increase in inequality (driven by an increase in the income of the rich) has two conflicting effects on the marginal disutility of taxation. The first effect is a level effect: For a given tax rate, the amount taxed increases. This effect tends to increase the marginal disutility of taxation. The second effect is a marginal effect: As the rich become richer, the value of each additional dollar to the rich decreases. This effects tends to decrease the marginal disutility of taxation. Under certain conditions, at a low level of inequality, the level effect dominates, and the tax rate decreases with inequality. At a high level of inequality, the marginal effect dominates, and the tax rate increases with inequality. Consequently, the relationship between inequality and taxation can be U-shaped, as empirically documented by Figini (1999) and de Melo and Tiongson (2006).

Related literature

This paper joins a line of research investigating how the rich influence fiscal policies in democracy. Roemer (1999) and Lee and Roemer (2006) show that the rich can avoid full expropriation of their wealth by manipulating the electoral agenda. Several papers analyze how the rich can buy favorable tax policies from the government with contributions (Rodriguez, 2004), bribes (Dal Bó and di Tella, 2003) or threats of violence (Dal Bó et al., 2006). Bénabou (2000) demonstrates how unequal participation in politics can translate into a low level of redistribution when markets are imperfect. This paper complements this literature by considering an additional channel of influence. The rich can undertake costly actions (start a political conflict) which impose a utility loss on the government and might force him to abandon his fiscal project. This new approach highlights another important variable affecting fiscal policy: the marginal disutility of taxation for the rich, which helps explain the empirically documented U-shaped relationship between inequality and the level of redistribution (Figini, 1999; de Mello and Tiongson, 2006).²

This paper also contributes to literature that explores the role of the opposition party or challenger in democracy. In most formal models, the opposition is a passive alternative to the party or individual in power (for example, Canes-Wrone et al., 2001). Dewan and Hortala-Vallve (2013a and b) and Ashworth and Shotts (2014) show how the presence of an opposition providing information to voters about her or the government's competence influences the government's policy choices. Iaryczower and Oliveros (2014) show how a minority party can help broker deals between a majority party and the opposition. Dewan and Spirling (2011) analyze how an opposition party can lead to more moderate policies by imposing cohesion among its members. In the present work, the opposition has a similar effect by forming a coalition and bearing part of the cost of political conflict in exchange for a more moderate tax proposal. In addition, I find that the possibility to form a coalition is Pareto-improving.³

The baseline model

I first consider a two-player game with a government and the rich, where players have divergent preferences regarding the level of taxation. The government's ideal tax rate is $\tau_g \in (\tau_{sq}, 1]$, where $\tau_{sq} \geq 0$ is the status quo tax rate. The ideal tax rate of the rich is $\tau_r \in [0, \tau_{sq}]$. The government proposes a tax rate $b \in [0, 1]$, where 0 corresponds to no tax and 1 to full taxation. After observing the government's fiscal proposal, the rich decide whether to start a political conflict $a_r \in \{0, 1\}$ which affects the final tax rate implemented τ . A political conflict is costly for the rich with cost c_r , and this cost is their private information. However, it is common knowledge that it is drawn from a Uniform distribution [0, 1]. (I assume a uniform distribution to simplify the analysis.)

A political conflict can take the form of a press campaign against the government fiscal plan (as in the case of the *Cartel des Gauches* described in the introduction) or a grassroots campaign (such as mobilizing partisans to send letters to their representative). It captures the efforts by the rich

to activate and sway "latent opinion" (V.O. Key, 1961).⁵ Since public reaction is unpredictable (V.O. Key, 1961: 267), I assume that with exogenous probability p > 0, public opinion sides with the rich and forces the government to abandon his fiscal project and uphold the status quo tax rate: $\tau = \tau_{sq}$. Otherwise, the government's tax proposal is passed: $\tau = b$. A political conflict also imposes a direct utility loss of k > 0 on the government. This loss captures the government's cost of defending his proposal (for example, the opportunity cost of making speeches on the subject, having to hold press conferences, sponsoring a media campaign in favor of the fiscal proposal, or popularity loss due to the conflict with the rich).⁶ To simplify the exposition, I assume that the government always has some incentive to compromise with the rich. That is, the cost of conflict satisfies: $k \geq (1-p)(\tau_g - \tau_{sq})$.

Using the simplifying assumption of linearity, the utility functions of the government and the rich are, respectively:

$$u_g(\tau, a_r) = -|\tau_g - \tau| - a_r k \tag{1}$$

$$u_r(\tau, a_r) = -\alpha |\tau_r - \tau| - a_r c_r, \ \alpha \ge 1$$
 (2)

The timing and outcome of the game are as follows:

Timing:

- 1. Nature draws c_r from a Uniform [0, 1];
- 2. The government chooses a tax rate $b \in [0, 1]$;
- 3. After observing b and c_r , the rich decides whether to engage in a political conflict: $a_r \in \{0,1\}$

Outcomes:

- 1. If the rich do not start a political conflict $(a_r = 0)$, the government's proposed tax rate is passed: $\tau = b$
- 2. If the rich start a political conflict $(a_r = 1)$, with probability 1-p, the government's proposed tax rate is passed: $\tau = b$, and with probability p, the status quo tax rate is upheld: $\tau = \tau_{sq}$.

The equilibrium concept used in this paper is Subgame Perfect Nash Equilibrium (SPNE) which requires that at each decision node, a player chooses the action that maximizes her expected utility given the strategy of the other player.⁷

Solving the model by backward induction, the rich choose to start a political conflict if and only if the expected gain from a conflict is greater than its cost: $c_r \leq \alpha p(b-\tau_{sq})$. The government does not know the cost of conflict to the rich, but anticipates that the risk of conflict when he chooses a tax rate. The government, therefore, chooses a tax rate to equate the marginal benefit of a higher tax rate with the marginal cost of an increase in the probability of political conflict.

Consequently, the government's tax proposal depends on the marginal disutility of taxation for the rich. When it is low, any increase in taxation is associated with a small increase in the risk of conflict. The marginal benefit of an increase in the proposed tax rate is always greater than the marginal cost, and the government proposes his ideal tax rate τ_g . When the marginal disutility is high, any increase in the proposed tax rate results in a high increase in the risk of political conflict, and the government upholds the status quo. In an intermediate range, there exists an interior solution $b \in (\tau_{sq}, \tau_g)$, and the government compromises with the rich. Observe that the tax proposal of the government does not depend on the government's ideal tax rate whenever the marginal disutility of taxation for the rich is sufficiently high $(\alpha > \underline{\alpha})$.

Proposition 1 The government's tax proposal is:

$$b^* = \begin{cases} \tau_g & \text{if } \alpha \leq \underline{\alpha} \\ \tau_{sq} + \frac{1}{2\alpha p^2} - \frac{k}{2p} & \text{if } \alpha \in [\underline{\alpha}, \overline{\alpha}] \end{cases} ,$$

$$\tau_{sq} & \text{if } \alpha \geq \overline{\alpha}$$

$$(3)$$

with
$$\underline{\alpha} = \frac{1}{2p^2(\tau_q - \tau_{sq}) + pk}$$
 and $\overline{\alpha} = \frac{1}{pk}$

The role of an opposition party

In this section, I extend the baseline model discussed above to include a parliamentary opposition. The government and the opposition have divergent preferences regarding taxation. The opposition's ideal tax rate is $\tau_o \in [\tau_r, \tau_{sq}]$. The opposition can form a coalition with the government before the latter proposes a tax rate: $a_o \in \{A, R\}$, where $a_o = A$ denotes that the opposition agrees to form a coalition. This coalition takes the form of an agreement on a tax proposal in exchange for the opposition to bear part of the cost of a political conflict (for example, if the opposition sends some of its members to speak in favor of the proposal or agrees not to press the government on the issue during parliamentary question time, this deferred opportunity to gain political capital at the expense of the government entails an opportunity cost). I assume that if the government and opposition form a coalition, the opposition bears a proportion $\beta \in (0,1]$ of the cost k, with β exogenously given.⁸ In addition, I suppose that the opposition might bear an additional cost $z \geq 0$ if she forms a coalition and the rich engage in a political conflict. This cost can result from a loss of political support, increased risk of the rich providing financial or logistic support to a primary challenger (in the U.S.) or other parties (in countries with multiple right-wing or center-right parties such as France, Italy, Germany or the Netherlands). While the utility function of the rich is unchanged (see (2)), the government's and opposition's utility functions in this extended game are, respectively:

$$u_g(\tau, a_r, a_o) = \begin{cases} -|\tau_g - \tau| - a_r(1 - \beta)k & \text{if } a_o = A\\ -|\tau_g - \tau| - a_rk & \text{if } a_o = R \end{cases}$$
(4)

$$u_o(\tau, a_r, a_o) = \begin{cases} -|\tau_o - \tau| - a_r(\beta k + z) & \text{if } a_o = A \\ -|\tau_o - \tau| & \text{if } a_o = R \end{cases}$$

$$(5)$$

Notice that the opposition and the rich can have similar ideal tax rates ($\tau_o = \tau_r$). However, the intensity of their preferences differs. The opposition does not have an informational advantage over the government when it comes to the cost of conflict to the rich (likely because of the lack of a credible private communication channel with the rich). As Propositions 2 and 3 show, the opposition can still play an important role even when she does not provide additional information to the government.

The timing of the extended game is:

- 1. Nature draws c_r from a Uniform [0,1];
- 2. The government proposes a tax rate $b^C \in [0,1]$ to form a grand coalition;
- 3. The opposition accepts or rejects the coalition offer $a_o \in \{A, R\}$;
 - If $a_o = A$, the tax rate proposed is $b = b^C$;
 - If $a_o = R$, the government chooses a tax rate $b \in [0, 1]$;
- 4. After observing b and c_r , the rich decide whether to engage in a political conflict: $a_r \in \{0, 1\}$ The outcomes of the game are the same as in the baseline model above. Observe that the baseline model analyzed in the previous section is a special case of the model presented here. It corresponds

to the case when the opposition always rejects the government's coalition offer (for example, because z is very high).

The equilibrium concept is still SPNE. To solve the extended game, we start with the rich's decision of whether to start a political conflict. The rich face the same trade-off as before and therefore choose to start a political conflict if and only if $c_r \leq \alpha p(b - \tau_{sq})$. When the opposition rejects the offer of the government, the government faces the same trade-off as in the previous section. Consequently, after $a_o = R$, the government chooses b^* defined in Proposition 1.

When deciding whether to accept the government's coalition proposal, the opposition anticipates the government's tax proposal if she were to reject his offer to form a coalition. The opposition, in this scenario, also considers the probability that the rich engage in a political conflict. Therefore, the opposition accepts the coalition offer if and only if her expected payoff is as high in a coalition as outside of a coalition. The next lemma determines what type of offer the opposition accepts.

Lemma 1 For each β , there exists $\hat{p}(\beta) \in (1/2, 1)$ such that if $p \leq \hat{p}(\beta)$ the opposition agrees to form a coalition only if the government proposes $b^C \leq b_o$ with $b_o \leq b^*$.

As long as the probability that public opinion sides with the rich is not too high, the opposition agrees to form a coalition with the government only if the government compromises by proposing a lower tax rate than the optimal tax rate without a coalition, b^* . In what follows, I assume that the condition on p stated in Lemma 1 holds.

The government on the contrary would rather propose a tax rate (weakly) greater than b^* since the opposition bears part of the cost of a political conflict. As a result, the government faces a trade-off between reducing his cost of political conflict and passing a more moderate tax rate. To minimize the cost of compromise, the government always offers $b^C = b_o$ to form a grand coalition. When the marginal disutility of taxation for the rich is low, the risk of conflict is low, and the cost of compromise is greater than the benefit from reduced cost of conflict. When the marginal

disutility is high, the risk of political conflict is high, and the cost of compromise is lower than the benefit from reduced cost of conflict.

Proposition 2 For each z, there exists $\alpha^*(z) \in [1, \overline{\alpha})$ satisfying $\alpha^*(0) = 1$ such that the government and the opposition form a coalition if and only if $\alpha \geq \alpha^*(z)$.

Figure 1 illustrates the optimal choice of the government for two values of z (the political cost of forming a coalition for the opposition). When z is low, the cost of compromising with the opposition is low, and a coalition is formed even when the marginal disutility of taxation for the rich is small. When z is high, the cost of compromising with the opposition is high, and a coalition is formed only if there is a high marginal disutility of taxation.

[Figure 1 Here]

I now show that having the option to form a coalition is Pareto-improving. It benefits the government because he has a greater choice set. The government is strictly better off whenever he forms a grand coalition; that is, whenever the marginal disutility of taxation for the rich is high (Proposition 2). By Lemma 1, the government proposes a more moderate tax rate whenever he forms a grand coalition. This moderation strictly benefits the rich (whose expected utility only depends on the proposed tax rate). The opposition is as well-off because she would reject any offer which does not leave her at least indifferent between accepting and rejecting the government coalition offer. Notice that this improvement does not come from a reduction in the waste caused by a political conflict. In fact, the result still holds when a conflict occurs and waste increases after a coalition is formed (i.e., z > 0).

Proposition 3 The ability to form a coalition is Pareto-improving.

Proposition 3 highlights a novel role for the parliamentary opposition. The opposition can be seen as a force for moderation (as in Dewan and Spirling, 2011). Furthermore, she helps the

government compromise in a way which is beneficial for all political actors; she makes Paretoimproving arrangements possible.¹¹

Inequality and taxation

In this section, I relate the government's tax proposal to the level of economic inequality. I first consider the relationship between the government's tax rate, and the marginal disutility of taxation for the rich. In line with intuition, an increase in the marginal disutility of taxation decreases the government's tax proposal. When the government and the opposition do not form a coalition, the government compromises to avoid a political conflict. The government must propose a more moderate tax rate to form a coalition with the opposition since she bears part of the cost of conflict (see Figure 1 for an illustration).

Lemma 2 The government's equilibrium tax proposal b (b^* or b_o) decreases with α , strictly for $\alpha \in (\underline{\alpha}, \overline{\alpha})$.

To establish the relationship between inequality and the tax proposal, I consider a country with fixed total income W and three income classes: the rich, the middle-class, and the poor. The income of the rich satisfies $w_r \geq W/3$. Taxation finances redistribution, and to simplify the exposition, I assume that there is no public good or transfer to the rich, who in turn consume all their after-tax income (the ideal tax rate of the rich is thus $\tau_r = 0$). I depart slightly from the linear model and assume that the utility function of the rich is u(.), increasing and concave. Using a Taylor expansion of the status quo tax rate, the utility function of the rich can be rewritten as:

$$u((1-\tau)w_r) \approx u((1-\tau_{sq})w_r) - w_r u'((1-\tau_{sq})w_r)(\tau-\tau_{sq})$$

$$\approx K - \alpha\tau \tag{6}$$

where $K = u((1 - \tau_{sq})w_r) + -w_r u'((1 - \tau_{sq})w_r)\tau_{sq}$ is constant in the tax rate τ and $\alpha = w_r u'((1 - \tau_{sq})w_r)$ corresponds to the marginal disutility of taxation. The effect of an increase in the income of the rich on α is then:

$$\frac{d\alpha}{dw_r} = u'((1 - \tau_{sq})w_r) + (1 - \tau_{sq})w_r u''((1 - \tau_{sq})w_r)$$
(7)

An increase in the income of the rich has two effects. The first term on the right-hand side of (7) corresponds to the level effect of an increase in w_r on α . For a given tax rate, the amount taxed increases as the rich become richer. This level effect increases the marginal disutility of taxation. The second term on the right-hand side of (7) corresponds to the marginal effect of an increase in w_r on α . As the rich become richer, the value of each additional dollar decreases, as does the marginal disutility of taxation. The presence of these level and marginal effects implies that the effect of an increase in the income of the rich on their marginal disutility of taxation is ambiguous.

Given that W is assumed to be fixed, any increase in w_r corresponds to an increase in inequality. Rewriting (7) as $d\alpha/dw_r = u'((1-\tau_{sq})w_r)(1-R((1-\tau_{sq})w_r))$, where $R(w) = -\frac{u''(w)w}{u'(w)}$ is the coefficient of relative risk aversion (RRA), I can study how an increase in inequality influences the tax rate. When the RRA is high, the marginal effect always dominates the level effect. Consequently, α decreases with w_r , and the tax rate always increases with inequality. Inversely, when the RRA is low, the marginal effect is always dominated by the level effect, and the tax rate always decreases with inequality. When the RRA increases with the (after-tax) income of the rich, the level effect can dominate the marginal effect at low levels of inequality, whereas the marginal effect can dominate the level effect at high levels of inequality.

Proposition 4 Denote R(w) the coefficient of relative risk aversion (R(w) = -wu''(w)/u'(w)). 1. If $R((1 - \tau_{sq})w_r) > 1$, $\forall w_r \in (W/3, W)$, the tax rate proposed by the government increases with inequality.

- 2. If $R((1-\tau_{sq})w_r) < 1$, $\forall w_r \in (W/3, W)$, the tax rate proposed by the government decreases with inequality.
- 3. If R'(w) > 0 and R(W/3) < 1 < R(W), the tax rate proposes by the government exhibits a U-shaped relationship with inequality.

Proposition 4 indicates that the model predicts a U-shaped relationship between taxation and inequality, as empirically documented by Figini (1999) and de Melo and Tiongson (2006), when the RRA satisfies two conditions. First, the RRA must be increasing with income. This condition is confirmed by several empirical studies (Holt and Laury, 2002; Post et al., 2008; Barseghyan et al., 2011). Second, the RRA must vary around 1. Even though estimates of the RRA vary greatly, Chetty (2006, Table 1) shows that estimates of the RRA based on income are close to 1 (and on average lower than 1).

Figure 2 illustrates the U-shaped relationship between inequality and taxation using the RRA estimate from Holt and Laury (2002: 1653). The utility function of the rich is $u(w) = \frac{1-\exp\left(-\kappa w^{(1-\rho)}\right)}{3\kappa}$, with $\kappa = 0.029$ and $\rho = 0.269$. The RRA is then $R(w) = \rho + \kappa(1-\rho)w^{(1-\rho)}$, increasing in w. Suppose W = 200 and $\tau_{sq} = 0.1$. There exists $\hat{w} \approx 126.9$ such that for all $w_r \leq (\geq)\hat{w}/(1-\tau_{sq})$, the tax rate decreases (increases) with inequality.

[Figure 2 Here]

The set-up studied in this paper provides an additional rationale for the empirically documented U-shaped relationship between inequality and redistribution. As in Bénabou (2000) and Rodriguez (2004), this is a consequence of a higher level of participation by the rich in the political process. However, in this paper, the influence of the rich is unaffected by the (in)efficiency of taxation as in Bénabou (2000) or the availability of quid pro quo contributions or bribes as in Rodriguez (2004).

It is a result of the capacity of the rich to sway public opinion and impose a cost on the government through a press campaign or grassroots mobilization.¹³

Conclusion

This paper analyzes a government's fiscal decision when the rich can engage in a political conflict. A political conflict is costly for the rich and the government, and it can sway public opinion and force the government to abandon his fiscal project. I show that the marginal disutility of taxation for the rich is a key variable in understanding the government's tax proposal. When it is high, the risk of political conflict is high, and the government compromises by proposing a very moderate increase in taxes (or no change at all). When it is low, the risk of political conflict is low, and the government proposes his ideal tax policy. This model highlights a new role for a parliamentary opposition. The ability to form a coalition with the opposition is Pareto-improving. It also provides an additional rationale for the empirically documented U-shaped relationship between inequality and redistribution.

Even though the focus of this paper is on the ability of the rich to influence fiscal decisions, the mechanism highlighted might apply more generally. For example, during the debate on President Clinton's health care reform in 1993, several special interest groups spent millions of dollars in advertising to influence public opinion (for example, the "Harry and Louise" ad by the Health Insurance Association of America). Extending the set-up to study special interest groups influence more generally is left for future research.

Appendix

I first introduce some notation. Denote $V_r(b, a_r)$ the expected utility of the rich (over the outcome of a political conflict) as a function of the government's tax proposal $b \in [0, 1]$ and their decision to start a political conflict $a_r \in \{0, 1\}$. Denote $V_g(b, a_o)$ and $V_o(b, a_o)$ the expected utility of the government and the opposition respectively (over the probability of a political conflict and its outcome) as a function of the government's tax proposal and the opposition decision to accept to form a coalition. The following conditions define an SPNE in pure strategies of the extended game.¹⁴

Definition 1 The following conditions define a SPNE in pure strategies:

C1: The rich start a conflict $(a_r = 1)$ if and only if: $V_r(b, 1) \ge V_r(b, 0)$, $\forall b \in [0, 1]$.

C2: When $a_o = R$, the proposal chosen by the government is b^R such that: $b^R \in \arg\max_{b \in [0,1]} V_q(b,R)$

C3: The opposition accepts $(a_o = A)$ the government's offer b^C if and only if:

$$b^C \in B_o = \{b \in [0,1] | V_o(b,A) \geq V_o(b^R,R) \}$$

C4: The government offers $b^C = b^A \in \arg\max_{b \in Y_o} V_g(b, A)$ if and only if: $V_g(b^A, A) \geq V_g(b^R, R)$; or else he proposes $b^B \notin B_o$

Given the timing and outcomes, the government always proposes $b \geq \tau_{sq}$. The expected utility of the rich is after rearranging:

$$V_r(b, a_r) = -\alpha(b - \tau_r) + a_r(\alpha p(b - \tau_{sq}) - c_r)$$
(8)

When the rich start a political conflict $(a_r = 1)$, with probability p, the government is forced to abandon his fiscal proposal and the status quo tax rate is upheld. The gain from starting a political conflict is thus $\alpha p(b-\tau_{sq})$. The cost of a political conflict is c_r . This cost is the private information of the rich. Therefore, from the government and opposition's perspective, the probability of a political conflict as a function of b is:

$$Pr(a_r = 1|b) = \min\{\alpha p(b - \tau_{sq}), 1\}$$

$$(9)$$

The expected utility of the government and the opposition are respectively.

$$V_g(b, a_o) = \Pr(a_r = 1|b)(pu_g(0, 1, a_o) + (1 - p)u_g(b, 1, a_o)) + (1 - \Pr(a_r = 1|b))u_g(b, 0, a_o)$$
(10)

$$V_o(b, a_o) = \Pr(a_r = 1|b)(pu_o(0, 1, a_o) + (1 - p)u_o(b, 1, a_o)) + (1 - \Pr(a_r = 1|b))u_o(b, 0, a_o)$$
(11)

Proof: [Proof of Proposition 1] First, notice that the government never chooses $b > \tau_g$ since it leads to a lower payoff than $b = \tau_g$ and increases the risk of political conflict by (9). Furthermore, under the assumption $k \geq (1-p)(\tau_g - \tau_{sq})$, conflict never occurs with probability 1 on the equilibrium path. We can thus rewrite (10) as:

$$V_q(b, R) = -\alpha p^2 (b - \tau_{sq})^2 + \alpha p(b - \tau_{sq})k + b - \tau_q$$

The function $V_g(b,R)$ is strictly concave in b. Therefore, there exists a unique maximum in $b \in [\tau_{sq}, \tau_g]$. The claim holds by taking first order condition and simple computations.

Proof:[Proof of Lemma 1] I show that there exists $\hat{p}(\beta) > 1/2$ such that for all $p \leq \hat{p}(\beta)$, $V(1, A) < V(b^*, R)$. We have:

$$V_o(b^*, R) = \alpha p^2 (b^* - \tau_{sq})^2 - b^* + \tau_o \tag{12}$$

$$V_o(b, A) = Pr(a_r = 1|b)(p(\tau_o - \tau_{sq}) + (1-p)(\tau_o - b) - (\beta k + z)) + (1 - Pr(a_r = 1|b))(\tau_o - b)$$
(13)

Notice that $V_o(b,A) < V_o(b,R)$ for all b since $\beta > 0$. Furthermore, when $b^* = \tau_{sq}$, $V_o(b,A) < V_o(\tau_{sq},R)$, $\forall b \geq \tau_{sq}$ (all the terms in $V_o(b,A)$ but one are negative or strictly smaller than $\tau_o - \tau_{sq}$). Lastly, if $V_o'(1,A) \leq 0$ or $\beta k + z \geq (1 - \tau_{sq})$, then $V_o(b^*,R) > V_o(b,A)$, $\forall b \geq b^*$. In what follows, I thus restrict the analysis to $\alpha < \overline{\alpha}$, $V_o'(1,A) > 0$, and $\beta k < p(1 - \tau_{sq})$. Since $V_o(b,A)$ is strictly decreasing in z, I impose z = 0.

Consider the function $f(b) = \alpha p^2(b - \tau_{sq})^2 - b$. This function has a unique minimum $\hat{b} = \tau_{sq} + \frac{1}{2\alpha p^2}$. As a polynomial of degree 2, f(b) is symmetric around \hat{b} . A necessary condition for $V_o(1,A) \geq V_o(b^*,R)$ is f(1) > f(b) (otherwise $V_o(1,R) < V_o(1,A) \leq V_o(b^*,A)$). Suppose $b^* = \tau_g$, we have $f(1) > f(b^*)$ if and only if $1 - \hat{b} \geq \hat{b} - \tau_g$ ($b^* = \tau_g$ if and only if $\tau_g \leq \tau_{sq} + \frac{1}{2\alpha p^2} - \frac{k}{2p} < \hat{b}$). Using the definition of \hat{b} , this is equivalent to: $\alpha > \frac{1}{p^2(1+\tau_g-2\tau_{sq})}$. From (12), $V_o(\tau_g,R)$ is increasing with α . Therefore, we have (after rearranging): $V_o(\tau_g,R) > \frac{-(\tau_g-\tau_{sq})(1-\tau_{sq})}{(1-\tau_{sq})+(\tau_g-\tau_{sq})} - \tau_{sq} + \tau_o$. From (13), given $p(1-\tau_{sq})-\beta k>0$ and $k\geq (1-p)(\tau_g-\tau_{sq})$, we have: $V_o(1,A)\leq p(1-\tau_{sq})-\beta(1-p)(\tau_g-\tau_{sq})-1+\tau_o$. A necessary condition for $V_o(1,A)\geq V(\tau_g,R)$ is: $p(1-\tau_{sq})-\beta(1-p)(\tau_g-\tau_{sq})-1+\tau_o>\frac{-(\tau_g-\tau_{sq})(1-\tau_{sq})}{(1-\tau_{sq})+(\tau_g-\tau_{sq})} - \tau_{sq} + \tau_o$ or equivalently: $p-\beta(1-p)X>1-\frac{X}{1+X}$, with $X=\frac{\tau_g-\tau_{sq}}{1-\tau_{sq}}$. The left-hand side is strictly increasing with p and the inequality is always satisfied for p=1 and never satisfied for p=1/2 since $X\leq 1$ and $\beta>0$. Hence, there exists $\hat{p}(\beta)>1/2$ such that $V_o(1,A)< V_o(\tau_g,R)$ for all $p\leq \hat{p}(\beta)$.

Suppose $b^* = \tau_{sq} + \frac{1}{2\sigma p^2} - \frac{k}{2p}$. We have $1 - \hat{b} > \hat{b} - b^* = \frac{k}{2p}$ if and only if $\alpha > \frac{1}{2p^2(1-\tau_{sq})-pk}$. This implies $b^* < 1 - \frac{k}{p}$. Plugging this in (12) and using the fact that $V_o(b^*,R)$ is increasing with α and f(b) decreasing with b for all $b \le \hat{b}$, we obtain after rearranging: $V_o(b^*,R) > \frac{(1-\tau_{sq})^2}{2(1-\tau_{sq})-\frac{k}{p}} - 1 + \tau_o$. The left-hand side is increasing with k for $k \le 2p(1-\tau_{sq})$. Since $b^* < 1-k/p$ and $b^* \ge \tau_{sq}$, we need $k < p(1-\tau_{sq})$. Since by assumption $k \ge (1-p)(\tau_g-\tau_{sq})$, we get: $V_o(b^*,R) > \frac{(1-\tau_{sq})^2}{2(1-\tau_{sq})-\frac{1-p}{p}(\tau_g-\tau_{sq})} - 1 + \tau_o$. As above, we have: $V_o(1,A) \le p(1-\tau_{sq}) - \beta(1-p)(\tau_g-\tau_{sq}) - 1 + \tau_o$. A necessary condition for $V_o(1,A) \ge V(b^*,R)$ is: $p(1-\tau_{sq}) - \beta(1-p)(\tau_g-\tau_{sq}) - 1 + \tau_o > \frac{(1-\tau_{sq})^2}{2(1-\tau_{sq})-\frac{1-p}{p}(\tau_g-\tau_{sq})} - 1 + \tau_o$ or equivalently: $p-\beta(1-p)X > \frac{p}{2p-(1-p)X}$, with $X = \frac{\tau_g-\tau_{sq}}{1-\tau_{sq}}$. The left-hand side is strictly increasing with p, the right-hand side is strictly decreasing with p and this condition is always (never) satisfied for p=1 (p=1/2). Hence, there exists $\hat{p}(\beta) > 1/2$ such that $V_o(1,A) < V_o(\tau_g,R)$ for all $p \le \hat{p}(\beta)$. The reasoning above implies that the opposition rejects any b^C such that $b^C > b^*$ whenever $p \le \hat{p}(\beta)$. This implies that $V_o(b,A)$ can be rewritten without loss of generality as polynomial of degree 2 in b. Therefore, when $p \le \hat{p}(\beta)$, the set of acceptable offer B_o is $B_o = [\underline{b}, b_o]$ with \underline{b} some

Lemma 3 To form a grand coalition the government proposes:

tax proposal satisfying $\underline{b} \leq \tau_o$ and $b_o \leq b^*$.

$$b^{C} = b_{o} = \tau_{sq} + \frac{1 + \alpha p(\beta k + z) - \sqrt{(1 + \alpha p(\beta k + z))^{2} - 4\alpha p^{2}(b^{*} - \tau_{sq})(1 - \alpha p^{2})}}{2\alpha p^{2}}$$
(14)

Proof: By Lemma 1 and (13), $V_o(b, A) = \alpha p^2 (b - \tau_{sq})^2 - b + \tau_o - \alpha p (b - \tau_{sq}) (\beta k + z)$ for all $b \in B_o$. Hence, b_o is the smallest solution to the quadratic equation: $V_o(b, A) = V_o(b^*, R)$. **Lemma 4** The government proposes $b^C = b_o$ if and only if:

$$\Delta(b_o, b^*, z) = \alpha p(b^*k + \tau_{sq}z - b_o(k+z)) \ge 0 \tag{15}$$

Proof: The government proposes $b^C = b_o$ to form a coalition if and only if:

$$V_{g}(b_{o}, A) \geq V_{g}(b^{*}, R)$$

$$\Leftrightarrow -\alpha p^{2}(b_{o} - \tau_{sq})^{2} - \alpha p(b_{o} - \tau_{sq})(1 - \beta)k + b_{o} - \tau_{g} \geq -\alpha p^{2}(b^{*} - \tau_{sq})^{2} - \alpha p(b^{*} - \tau_{sq})k + b^{*} - \tau_{g}$$
(16)

From the definition of b_o (Lemma 3), we know that:

$$b_o - \alpha p^2 (b_o - \tau_{sq})^2 = b^* - \alpha p^2 (b^* - \tau_{sq})^2 - \alpha p (b_o - \tau_{sq}) (\beta k + z)$$
(17)

Plugging (17) into (16), we obtain: $V_g(y^A, A) \ge V_g(y^R, R) \Leftrightarrow \alpha p(b^* - b_o)k - \alpha p(b_o - \tau_{sq})z \ge 0$

Proof: [Proof of Proposition 2] Observe that when z=0, then (15) is always satisfied since $b^* \geq b_o$. Furthermore, from (14), when $b^* = \tau_{sq}$, then $b_o = \tau_{sq}$. Therefore, (15) is satisfied for all $\alpha \geq \overline{\alpha}$. In what follows, I focus on z > 0 and $\alpha < \overline{\alpha}$.

First consider the case when $\alpha < \underline{\alpha}$ so $b^* = \tau_g$. Rewrite (15) as: $\tilde{\Delta}(\alpha) = \alpha p [\tau_g k + \tau_{sq} z - b_o(k+z)]$. $\tilde{\Delta}(\alpha)$ has the same sign as $\tau_g k + \tau_{sq} z - b_o(k+z)$. I claim that b_o is strictly decreasing with α on $[1,\underline{\alpha})$ and verify the claim in the proof of Lemma 2. Therefore, $\tilde{\Delta}(\alpha)$ can change sign at most once (from negative to positive)

Suppose now that $\alpha \geq \underline{\alpha}$ (the result can be proved first for $\alpha > \underline{\alpha}$ and then taking the limit, but, as the proof makes clear, $\alpha = \underline{\alpha}$ is not a special case due to the continuity of b^*). We have: $\tilde{\Delta}(\alpha) = \alpha p[b^*k + \tau_{sq}z - b_o(k+z)]$. Using the definitions of b^* (see (3)) and b_o (see (14)) and rearranging, we have that $\tilde{\Delta}(\alpha)$ has the same sign as: $\xi(\alpha) = (k+z)\sqrt{\Phi_1(\alpha)} - k(\alpha p((1+\beta)k+z)) - z(1+\alpha p(\beta k+z))$, with $\Phi_1(\alpha) = (1+\alpha p(\beta k+z))^2 - 2(1-\alpha pk)(1-\alpha p^2)$ a polynomial of degree 2 in α . By the reasoning above, we have: $\xi(\overline{\alpha}) = 0$. Furthermore, after some algebra, we get: $\xi'(\overline{\alpha}) = pk\frac{(k-p)(k+z)}{k+z+\beta k} - pk^2 < 0$.

The solution to the equation $\xi(\alpha)=0$ is equivalent to $(k+z)\sqrt{\Phi_1(\alpha)}=k(\alpha p((1+\beta)k+z))+z(1+\alpha p(\beta k+z))$, which itself is equivalent to (since $\Phi_1(\alpha)>0$) $\Phi_1(\alpha)=\left(p((1+\beta)k+z))+z(1+\alpha p(\beta k+z))\right)^2$. This is a quadratic equation so $\xi(\alpha)=0$ has at most one solution in $[\underline{\alpha},\overline{\alpha})$ (since $\xi(\overline{\alpha})=0$). Given $\xi'(\overline{\alpha})<0$, I claim that this implies that i. if $\xi(\underline{\alpha})\geq 0$, then $\xi(\alpha)>0$, $\forall \alpha\in(\underline{\alpha},\overline{\alpha})$ and ii. if $\xi(\underline{\alpha})<0$, then there exists a unique $\alpha^*\in(\underline{\alpha},\overline{\alpha})$ such that $\xi(\alpha^*)=0$.

The proof of point i. is by contradiction. Suppose $\xi(\underline{\alpha}) \geq 0$ and there exists $\alpha_1 \in (\underline{\alpha}, \overline{\alpha})$ such that $\xi(\alpha_1) < 0$. The properties of $\xi(.)$ at $\alpha = \overline{\alpha}$ imply that there must be at least two $\hat{\alpha}$'s satisfying $\hat{\alpha} < \overline{\alpha}$ and $\xi(\hat{\alpha}) = 0$. Since $\xi(\alpha) = 0$ has at most one solution on $(\underline{\alpha}, \overline{\alpha})$, we have reached a contradiction. To prove point ii., observe that the existence of α^* is guaranteed by the properties of $\xi(.)$ at $\alpha = \overline{\alpha}$. Uniqueness follows from a similar reasoning as above.

To summarize, the reasoning above implies that either 1) $\tilde{\Delta}(1) \geq 0$ and the government always offers $b^C = b_o$ (i.e., we have $\alpha^*(z) = 1$); or 2) there exists a unique $\alpha^*(z) \in (1, \overline{\alpha})$ such that, $\tilde{\Delta}(\alpha) < 0$, $\forall \alpha < \alpha^*(z)$ and $\tilde{\Delta}(\alpha) \geq 0$, $\forall \alpha \geq \alpha^*(z)$ (the dependence on z follows from the definitions of b_o and $\tilde{\Delta}(\alpha)$).

Proof: [Proof of Proposition 3] When the government proposes $b^C \notin B_o$, he gets $V_g(b^*, R)$ therefore he is as well off as when a coalition is impossible. By Definition 1, the government is better off when he forms a grand coalition, i.e., for all $\alpha \geq \alpha^*(z)$. By the proof of Proposition 2, he is strictly better off for all $\alpha \in (\alpha^*(z), \overline{\alpha})$ (this interval is not empty). By Lemma 3, the opposition is as well off when a coalition is possible as when it is impossible. By (8), the expected utility of the rich decreases with b. Since $b_o \leq b^*$, the rich are at least as well off when a coalition is possible. In fact, for all $\alpha \in [\alpha^*(z), \overline{\alpha})$, we have $b_o < b^*$ and the rich are strictly better off.

Proof: [Proof of Lemma 2] b^* is weakly decreasing with α by inspection of (3) (strictly for $\alpha \in (\underline{\alpha}, \overline{\alpha})$). By Lemma 3, b_o is the smallest root of the quadratic equation $V_o(b, A) = V_o(b^*, R)$, with $V_o(b, A) = \alpha p^2 (b - \tau_{sq})^2 - b + \tau_o - \alpha p (b - \tau_{sq}) (\beta k + z)$. From the proof of Lemma 1, we have $V'_o(b^*, R) < 0$. By the Implicit Function Theorem, we have: $\frac{\partial b_o}{\partial \alpha} V'_o(b_0, A) = p(b_o - \tau_{sq})((\beta k + z) - p(b_o - \tau_{sq})) + V'_o(b^*, R) \frac{\partial b^*}{\partial \alpha} + \frac{\partial V_o(b^*, R)}{\partial \alpha}$. By (12), we have: $\frac{\partial b_o}{\partial \alpha} V'_o(b_0, A) = p(b_o - \tau_{sq})(\beta k + z) + p^2 \left((b^* - \tau_{sq})^2 - (b_o - \tau_{sq})^2 \right) + V'_o(b^*, R) \frac{\partial b^*}{\partial \alpha}$. The right-hand side is positive (strictly for $\alpha < \overline{\alpha}$). Hence, we have $\partial b_o/\partial \alpha \leq 0$ (strictly for $\alpha < \overline{\alpha}$).

 Proof :[Proof of Proposition 4] The proof follows from the reasoning in the text and Lemma 2. \square

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Notes

¹For more details on the Cartel des Gauches, see Soulié (1962) and Jeanneney (1977).

²Bénabou (2000) and Rodriguez (2004) also provide a theoretical explanation for this U-shaped relationship. In Bénabou (2000), this relationship is driven by change in the efficiency of taxation with inequality. In Rodriguez (2004), it is the consequence of a change in the amount available for redistribution. Rodriguez's (2004) explanation relies on the ability for the rich to buy tax exemptions with contributions. However, contributions face legal limits in most OECD countries (Institute for Democracy and Electoral Assistance, 2012) and have a weak effect on political decisions in the U.S. (Ansolabehere et al., 2003).

³The finding that a third party makes Pareto-improving arrangements possible in a conflict also complements the literature on bargaining under the threat of conflict (Banks, 1990; Fearon, 1995).

⁴The ideal tax rate of the rich need not be 0 if taxes pay for public goods which the rich consume (such as roads or airports).

⁵The efforts by the rich can have an impact on the public's opinion of the government's fiscal proposal if the rich provide information about the impact of this policy as in Gül and Pesendorfer's (2012) War of Information.

⁶Politicians are aware of the risk of groups mobilizing against them and behave strategically to avoid these conflicts as documented by surveys of Members of the U.S. Congress (Fenno, Jr., 1978; Kingdon, 1981; and Wolpe, 1990).

⁷A formal definition of the equilibrium can be found in the appendix.

⁸In an Online Appendix, I endogenize the optimal contract for the government and show that the government would like the opposition to bear as high a proportion of the cost of political conflict as possible.

⁹When p is very large, the opposition might accept a very high tax rate to induce the rich to start a conflict and obtain the status quo tax rate.

¹⁰Observe that the opposition is necessarily indifferent because the government makes a takeit-or-leave-it offer. If the bargaining process is more balanced (for example, a Nash bargaining), Lemma 1 and Proposition 2 hold, and the opposition is then *strictly* better off. As such, the ability to form a coalition can be *strict* Pareto-improving.

¹¹In Iaryczower and Santiago (2014), a minority party can serve as a deal-broker between two other parties. However, the presence of a deal-broker is not Pareto-improving in their set-up.

¹²Several theoretical papers predict a decreasing relationship between inequality and redistribution. This includes the analysis of social mobility (Bénabou and Ok, 2001), differences in beliefs (Bénabou and Tirole 2006), and the rich's manipulation of the electoral agenda (Roemer 1998 and Lee and Roemer 2006). When the tax base depends on investment in education or capital complemented by public spending, Lee and Roemer (1998 and 1999) find an inverted U-shaped relationship between inequality and redistribution.

¹³An increase in inequality might have an impact on the identity of the party in power. It might also change the preferences of the party favoring taxation. However, unlike in Meltzer and Richard (1981), the preferences of the party in power has no impact on the tax proposal whenever the marginal disutility of taxation is sufficiently high (see (3) and (14)). Nonetheless, since the present

paper studies a one-shot game, it is not adapted to study the steady state tax rate. A dynamic game approach to determine the steady state tax rate is left for future research.

¹⁴The focus on pure strategies SPNE is without loss of generality. Observe that conditions C2 and C3 define an SPNE in pure strategies for the baseline model.

¹⁵Observe that $Pr(a_r|b^*) < 1$.

¹⁶The function $V_o(b^*, R)$ and consequently b_o as a kink at $\alpha = \underline{\alpha}$ so the Implicit Function Theorem can be applied only on the intervals $[1,\underline{\alpha})$ and $(\underline{\alpha},\infty)$. However by taking the limits, we can see that the result holds as $\alpha \to \underline{\alpha}$.

References

Acemoglu D and Robinson JA (2005) *Economic Origins of Dictatorship and Democracy*. Cambridge, New York: Cambridge University Press.

Alesina A and Glaeser EL (2004) Fighting Poverty in the US and Europe. Oxford, UK: Oxford University Press (The Rodolfo Debenetti Lecture Series).

Ansolabehere S, de Figueiredo JM and Snyder Jr JM (2003) Why is There so Little Money in US Politics?. *Journal of Economic Perspectives* 17(1): 105-130.

Ashworth S and Shotts KW (2014) Challengers, Democratic Contestation, and Electoral Accountability. Paper presented at the 2014 Annual Meeting of the American Political Science Association, Washington, D.C., August, 28-31 2014.

Banks JS (1990) Equilibrium Behavior in Crisis Bargaining Games. *American Journal of Political Science* 34(3): 599-614.

Barseghyan L, Prince J and Teitelbaum JC (2011) Are risk preferences stable across contexts? Evidence from insurance data. *American Economic Review* 101(2): 591-631.

Bénabou R (2000) Unequal Societies: Income Distribution and the Social Contract. American Economic Review 90(1): 96-129.

Bénabou R and Ok EA (2001) Social Mobility and the Demand for Redistribution: The Poum Hypothesis. Quarterly Journal of Economics 116(2): 447-487.

Bénabou R and Tirole J (2006) Belief in a Just World and Redistributive Politics. *Quarterly Journal of Economics* 121(2): 699-746.

Canes-Wrone B, Herron MC and Shotts KW (2001) Leadership and pandering: A theory of executive policymaking. *American Journal of Political Science* 45(3): 532-550.

Chetty R (2006) A New Method of Estimating Risk Aversion. American Economic Review 96(5): 1821-1834.

Dal Bó E and Di Tella R (2003) Capture by threat. *Journal of Political Economy* 111(5): 1123-1154.

Dal Bó E, Dal Bó P and Di Tella R (2006) Plata o Plomo?: Bribe and punishment in a theory of political influence. *American Political Science Review* 100(1): 41-53.

Dewan T and Spirling A (2011) Strategic opposition and government cohesion in Westminster democracies. *American Political Science Review* 105(2): 337-358.

Dewan T and Hortalla-Vallve R (2013a) Policy Learning and Elections. Unpublished manuscript.

Dewan T and Hortala-Vallve R (2013b) Teams of rivals: Learning in the Cabinet and its Shadow. Paper presented at the 2013 Annual Meeting of the American Political Science Association, Chicago, August 29-September 1 2013.

Ellman M and Wantchekon L (2000) Electoral Competition under the Threat of Political Unrest. Quarterly Journal of Economics 115(2): 499-531.

Fearon JD (1995) Rationalist explanations for war. International organization 49(3): 379-379.

Figini P (1999) Inequality and Growth Revisited. Unpublished manuscript.

Holt CA and Laury SK. 2002 Risk Aversion and Incentive Effects. *American Economic Review* 92(5): 1644-1655.

Iaryczower M and Oliveros S (2013) Power brokers: Middlemen in Legislative Bargaining. Paper presented at the 72th Annual Meeting of the Midwest Political Science Association, Chicago, April 3-6 2013

Institute for Democracy and Electoral Assistance. (2012) *Political Finance Database*. Available at: http://www.idea.int/political-finance/

Jeanneney JN (1977) Leçon d'histoire pour une Gauche au pouvoir: la faillite du Cartel, 1924-1928. Paris, France: Seuil.

Key VO (1961) Public Opinion and American Democracy. New York; NY: Knopf.

Kingdon JW (1981) Congressmen's Voting Decisions. New York, NY: Harper & Row.

Lee W and Roemer JE (1998) Income distribution, redistributive politics, and economic growth. Journal of Economic Growth 3(3): 217-240.

Lee W and Roemer JE (1999) Inequality and redistribution revisited. *Economics Letters* 65(3): 339-346.

Lee W and Roemer JE (2005) Racism and Redistribution in the United States: A Solution to the Problem of American exceptionalism. *Journal of Public Economics* 90(6-7): 1027-1052.

de Mello L and Tiongson ER (2006) Income Inequality and Redistributive Government Spending. *Public Finance Review* 34(3): 282-305.

Meltzer AH and Richard SF (1981) A Rational Theory of the Size of Government. *Journal of Political Economy* 89(5): 914-927.

Post T, van den Assem MJ, Baltussen G, et al. (2008) Deal or no deal? Decision making under risk in a large-payoff game show. *American Economic Review* 98(1): 38-71.

Rodriguez F (2004) Inequality, Redistribution, And Rent-Seeking. *Economics & Politics* 16(3): 287-320.

Roemer JE (1998) Why the Poor do not Expropriate the Rich: an Old Argument in New Garb. *Journal of Public Economics* 70(3): 399-424.

Soulié, Michel. 1962. La vie politique d'Edouard Herriot. Paris, France: A. Colin.

Wolpe BC (1990) Lobbying Congress Washington, D.C.: Congressional Quarterly