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

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Issue	Conditional on	Ideological moderates	Ideological non-moderates
Taxes	Education spending	59.5 %	48.5 %
Education spending	Taxes	54.8	47.1
Medicare spending	Defense spending	40.1	31.7
Defense spending	Medicare spending	37.1	32.8
Immigration	National health care	24.2	26.0
Free Trade	Privatize Social Security	23.9	23.0
National health care	Immigration	19.1	16.7
Assault weapons ban	Background checks	13.0	14.2
Privatize Social Security	Free Trade	11.5	8.0
Adoption	Marriage	9.0	8.6
Marriage	Adoption	7.5	2.4
Background Checks	Assault weapons ban	3.0	3.3

 Table 2
 Percentages of respondents with nonseparable preferences. Source: 2004 panel survey of nonseparable preferences

Voter 2, for instance, has an ideal point on issue X that makes him the median voter on X. But when issue Y is introduced, he supports candidate B's extreme posi-tion on X. Even though voter 2's ideal point may be moderate on X, his induced ideal point given the constraints of the options before him-candidate positions A and B'—is extreme. Debates about whether voters are extreme or moderate, polar-ized or centrist, are based on interpreting the distribution of voter ideal points issue by issue (Fiorina 2005; Abramowitz 2010). We need more information about voter preferences across issues to draw conclusions about whether voters are moderate or extreme. Nonseparable preferences may make moderate voters appear extremist or extremist voters appear moderate depending on the constraints imposed by other issues or the candidates' positions.

5 Conclusion

As E.E. Schattschneider wrote, "Political strategy deals... with the inclusion and exclusion of contestants because it is never true that the balance remains the same if the number is changed" (1957, 941). The same may be said of political issues as contestants. Changing the issues can tip the balance of a close election. We already know that moving from one issue to multiple issues fundamentally alters the nature of elections. As we show in this chapter, moving to a multi-dimensional issue space can be a strategic choice in an election. Introducing new issues may be a candidate's only hope of unseating an entrenched opponent. But simply introducing a new issue is not alone a path to victory. For a disadvantaged candidate to have any hope of winning an election by introducing new issues, some voters must see the issues as linked.

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In the one dimensional spatial model, two competing candidates will converge to the position of the median voter. This theoretical result does not fit reality, primarily because politics is multidimensional. In a multidimensional model with two candidates, an equilibrium will not generally exist and candidates will change positions on issues in a never-ending quest for an electoral advantage. This prediction also does not appear to fit real elections. Imposing some additional realistic structure on the multidimensional spatial model of electoral competition produces new and surprising results.

When candidates have fixed positions in an issue space, a candidate can take a position on a new issue in order to beat an advantaged opponent. Instead of changing positions on existing issues, a potentially costly strategy if voters penalize "flip-floppers," candidates can compete by expanding the scope of conflict to include new issues. But only when some voters have nonseparable preferences will the strategy of introducing a new issue prove beneficial for a disadvantaged candidate. Issue packaging is a fundamental strategy of electoral politics, part of what William Riker called "heresthetics," or the art of political manipulation (Riker 1986).

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When Will Incumbents Avoid a Primary **Challenge?** Aggregation of Partial Information **About Candidates' Valence**

Gilles Serra

1 Introduction

17 Incumbents and other insiders tend to enjoy a comfortable position within their par-18 ties. In particular, they frequently have an advantage to secure their party's nomina-19 tion for a future election. Outsiders who do not necessarily belong to the dominant 20 faction in the party have a much harder time getting their name on the ballot. They 21 are disadvantaged in at least two ways: they might be less well-known than the 22 party grandees they are competing with; and there might not even be a fair com-23 petition such as a primary election for them to prove themselves. A question of 24 interest is why parties allow well-known insiders to have such and advantage over 25 lesser-known outsiders. We would imagine an ambitious party that wishes to win 26 elections to find mechanisms for identifying and selecting the best possible candidate, regardless of that candidate's previous standing in the party. One option would 27 28 be to democratize the nomination process to let fresh outsiders join an open competition where they can display their true campaigning skills. This option is widely 29 available to political parties around the world, though it is not always used. In this 30 paper I explore the conditions under which candidate-selection is democratized, and 31 I show that rational parties who wish to find the most talented candidate may nev-32 ertheless shut down the possibility of unknown hopefuls coming forward to display 33 their talents. 34

Indeed, a political party can use a variety of methods to nominate those who will 35 later compete for office at a given election. Broadly speaking, a candidate-selection 36 method (CSM) can fall in two categories. On one hand, the method could be open 37 (or *democratic*) by allowing the participation of all the members, activists and sym-38 pathizers of the party in the nomination of candidates. Of all the selection methods 39 that parties can use, the most open and democratic one is the *primary election*. By 40 41

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44 Carretera México-Toluca 3655, Lomas de Santa Fe, Mexico City 01210, Mexico

G. Serra (🖂)

⁴³ Department of Political Science, Center for Economics Research and Teaching (CIDE),

⁴⁵ e-mail: gilles.serra@cide.edu

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primary election, I refer to the organized competition among aspiring candidates within the same party that culminates in the democratic vote of all party members. On the other hand, the nomination method could be *closed* (or *undemocratic*), consisting of a closed-door decision at the elite level of the party. For example, the nominee for an upcoming presidential or gubernatorial election could be chosen by a handful of party bosses at a private meeting. As argued throughout this paper, the choice matters for the party in terms of its prospects of winning the election; but it also matters for citizens in terms of the quality of candidates they are offered.

Party leaders are for the most part responsible for the way their parties nominate candidates. In most presidential systems, political parties have leeway in choosing their CSM, and it is usually *not* the case that primaries are exogenously imposed on them by the government. In fact, it is common for political parties to have seri-59 ous deliberations on what CSM to adopt before even discussing which candidates 60 to select. Their adoption of primary elections is most often voluntary rather than 61 mandated by law. Throughout Latin America we repeatedly see party elites debat-62 ing whether to open the nomination process or not. Actually, it is not uncommon for parties to go back and forth between primaries and other CSMs in recurrent 63 64 elections, which clearly indicates the strategic nature of that choice. In the United 65 States, party elites also have a strong say in choosing whether their nomination will 66 be open and inclusive, or closed and exclusive. They do so by choosing whether to 67 endorse a favored candidate or not. If party leaders decide to rally behind a well-68 known insider, they will provide her with public endorsements, strategic advice and 69 large amounts of funding to overwhelm any challenger. On the other hand, if party 70 leaders do not identify an insider candidate that satisfies them, they will withhold 71 or divide their endorsements such that a competitive race among several hopefuls takes place. Thus, while parties are "officially" holding a primary election, in prac-72 73 tice that primary can be competitive or uncompetitive. In effect, this is equivalent to 74 choosing between a democratic and an undemocratic CSM. Hence, I claim the ex-75 planation for the use of primaries around the world lies in the strategic calculations 76 of party leaders

77 This paper postulates a benefit to party leaders that helps explain why they oc-78 casionally allow the use of primary elections within their parties. To be concrete, 79 I claim that primary elections have a practical advantage over elite-centered nom-80 inations: they reveal information about candidates' appeal to voters. My premise 81 is that a candidate nominated through a primary election can be expected to have 82 higher campaigning skills than a candidate nominated through an elite appointment. 83 This happens because the primary campaigns reveal valuable information about the 84 contenders. Indeed, there is much uncertainty surrounding the individuals seeking to become a party's candidate, often called *pre-candidates*. Their future vote-getting 85 86 effectiveness is never known for sure. A primary can serve as a "trial" election 87 within a party that shares many of the features of the subsequent general election between the parties. Pre-candidates must participate in debates, broadcast television 88 89 advertisements, manage a campaign, and so forth. Thus primaries can reveal how effective the pre-candidates would be in the general election. In that sense, my model 90 91 provides an "information rationale" for the existence of primary elections.

On the other hand, as mentioned above, primaries might carry several costs to party leaders. In this paper I focus on one oft-mentioned cost: primary elections might push candidates to adopt policies far from the leaders' preferences. Indeed, the party bosses know that primary voters may not quite share their ideology. They might be too extremist or too moderate to be trusted with the selection of the party's candidate. The main point is that party leaders face a trade-off between the costs and benefits of a primary election. The results in this paper reveal that the party leaders' decision is not trivial

On that basis, I build a spatial voting model that includes a party's choice between a competitive primary election and an elite-centered nomination. The main question is: When does the informational benefit of primaries outweigh the cost of losing control of the candidates' platforms? As the results will indicate, the answer depends on several fundamental variables: the ideology of parties, the ideology of primary voters, the intensity of the primary election, and the quality of insider and outsider candidates.

This model is a continuation of the research in Serra (2011). The main contribu-109 tion with respect to that research is analyzing the revelation of *partial* information 110 rather than *full* information, by which I mean that primary elections only reveal 111 part of the information needed to assess a contender, but his or her ability to perform well in the general election would still not be known in full. To be concrete, 112 I assume the contenders' performances within the party are interpreted as "noisy 113 114 signals" that can be interpreted as forecasts of their performance if they were nominated to compete against another party. In this sense, the model falls in the tradi-115 116 tion of modeling voting as a process to aggregate information-a tradition initiated by Condorcet (1785), Austen-Smith and Banks (1996), Feddersen and Pesendorfer 117 (1998). 118

119 Several new results are found with this modeling choice. Two new variables can 120 be studied more precisely. The ability of primaries to reveal valuable information, 121 which I call the *quality* of primaries; and the reputation of the insider candidate as proficient vote-getter, which I call the prior belief about the insider's skill. Regard-122 123 ing the quality of primaries, I find that a party can benefit from stiff competition in 124 its primary election. This result stands in contrast with an oft-mentioned view that 125 parties should ensure their primaries are light and cordial. Regarding the prior belief held about the skill of candidates, I find that an insider might have a good enough 126 reputation to prevent a primary election altogether. This result would help explain 127 128 why many incumbents are able to be re-nominated for a subsequent election without 129 being opposed inside their parties. Both results are new in the literature on primary 130 elections as far as I can tell.

In addition to these new results, many of the previous results in Serra (2011) are corroborated. In particular, this paper also finds that primaries are more likely when there is congruence between the elite and the mass membership of the party; and primaries are more appealing to the party that is most disadvantaged given its valence and policies.

The rest of the paper is developed as follows: Sect. 2 briefly summarizes the
 theoretical literature that relates to my model. Section 3 introduces a spatial vot-

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ing model between two parties that will serve to study the general election. It is a variant of the Downsian voting model, with an additional dimension corresponding to the candidates' valence. In Sect. 4, I take a step back in the electoral process, and I study the nomination that takes place inside a party before the general election. Section 5 develops a signaling mechanism for primary voters to update their beliefs about pre-candidates based on their performance in the primary campaigns. Section 6 introduces a cost of adopting primaries based on the lack of congruence between the elite and the mass in the party. In Sect. 7, I derive a number of conditions for a party to hold a competitive primary election, which is the purpose of this paper. Finally, Sect. 8 discusses the main results and suggests some interpretations of relevance to democratic theory. The Appendix contains all the proofs of the results in this paper.

2 Previous Theories of the Adoption of Primary Elections

The paper adds to the formal literature on primary elections. Most authors have stud-156 ied the consequences of primaries, rather than their causes. Several papers in that 157 literature share common aspects with this one, especially those comparing different 158 candidate-selection methods (CSM). Owen and Grofman (2006) compare primaries 159 with different degrees of divergence between the party mean and the population 160 mean. Jackson et al. (2007) study three different nomination processes: an arbi-161 trary appointment by a party leader, a primary election, and a spending competition 162 between candidates. In Castanheira et al. (2010), parties select their internal orga-163 nization possibly including intra-party competition. Cho and Kang (2008) compare 164 open and closed primary elections. 165

Another set of papers that relate to my model, are those that have paid attention to informational aspects of primaries. In Caillaud and Tirole (2002) and Castanheira et al. (2010), the use of primaries provides information about the credibility and trustworthiness of the party. In Meirowitz (2005), primaries allow candidates to acquire information about voters' preferences. Then there is a set of papers where primaries reveal information about the valence of primary contenders.

For instance, Adams and Merrill (2008) postulate that primary elections may allow a party to identify a high-quality nominee. The authors find, as I do, that weak parties benefit from primaries more than strong parties do. In spite of those similarities, our models have important differences because the focus of their paper is the candidates' choice of platforms, while the focus of my paper is the parties' choice of candidates.

Another closely related paper is Snyder and Ting (2011) who also studies a party's decision to hold a primary election or not. As in my model, parties compete both in terms of ideology and valence. Snyder and Ting also assume that primaries increase the expected valence of the nominee. A main difference is the alternative CSM. If a party does not hold a primary, Snyder and Ting assume that the nominee will be chosen at random among all the willing pre-canternative didates. In contrast, I assume the party elite will choose an insider candidate in a smoke-filled room. Another difference is that both parties are bound to use the same CSM by state law, whereas in my model parties can have different CSMs.

Kselman (2012) develops a model where aspirants must compete in a primary election to obtain their party's nomination. In his model, candidates enjoy a type of valence that serves as a bonus for parties that are office-seeking. Interestingly, this type of valence is particularistic in the sense that only a subset of voters benefit from it.

Finally, this paper is related to the literature on *endogenous valence*. Some other papers have also allowed the agents in their models to affect the valence parameter are Ashworth and de Mesquita (2009), Schofield and Sened (2005), Schofield (2007), Carrillo and Castanheira (2008), Callander (2008), Meirowitz (2008), Schofield et al. (2008).

The model in this paper is one of the few that combines both literatures, the one on valence and the one on primaries. As in Adams and Merrill (2008), Snyder and Ting (2011), and Serra (2011), the premise here is that primaries help parties by revealing the valence of their candidates. Unlike those papers, however, this paper develops a signaling mechanism to reveal partial rather than full information.

3 General Election Between the Two Parties

In this section I focus on the competition between two parties without any refer-ence to primary elections. In essence, this corresponds to the "general election" that occurs after all parties have already completed their nomination cycle. This will be a valence-policy model, meaning that it will have two dimensions. First, the elec-tion occurs in a left-right policy spectrum. I denote by x the policy implemented, with $x \in \mathbb{R}$. Second, there is a dimension corresponding to valence, which is de-scribed in detail below. The valence dimension is denoted by v, with $v \in \mathbb{R}_+$. The model I present here is an application of the more general model developed in Serra (2010).

3.1 Parties

There are two parties competing in this election, labeled party *L* and party *R*. Following the Wittman-Calvert-Roemer tradition, I assume that parties are *policymotivated*, meaning that they care about the policy implemented after the election (Wittman 1973; Calvert 1985; Roemer 2001). Parties *L* and *R* have ideal policy points X_L and X_R , respectively. The two parties have distinct ideologies so that $X_L \neq X_R$. I normalize the ideal point of the median voter in the general election to zero, and without much loss of generality I assume $X_L < 0 < X_R$. The utility functions of *L* and *R* are

$$U_R(x) = -|X_R - x|$$
$$U_L(x) = -|X_L - x|$$

In later sections I will specify two separate groups within party R with different ideal points X_{RE} and X_{RM} . For this section, however, it is sufficient to think of X_R as the generic ideal point of R. At this stage it is useful to define a few concepts. By a party's *extremism* I will mean how far its ideal point is from the median voter's ideal point. Concretely, party R's extremism will be measured by $|X_R|$, and party L's extremism will be measured by $|X_L|$.¹

Finally, parties formulate policy platforms to compete in the election, and they do so strategically in order to maximize their expected utility. I call those platforms x_L and x_R , with $x_L, x_R \in \mathbb{R}$.

3.2 Candidates

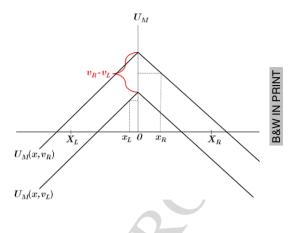
All candidates are characterized by a parameter v denoting how appealing their non-policy attributes are to voters in that election. Parameters such as v have been called "valence parameters" and can be given many interpretations (for an overview see Schofield (2007) and Adams et al. (2009)). In the context of this paper, v is best interpreted as the candidate's *campaigning skill*. It can take two values: a low value normalized to zero corresponding to a low-skilled candidate, and a high value of V corresponding to a high-skilled candidate. Hence $v \in \{0, V\}$. I label v_L and v_R the skills of candidates in parties L and R, respectively. To focus on the in-teresting cases, I will assume that valence is sufficiently salient to make a differ-ence in the election; technically I will assume that the valence of a high-skilled candidate is strictly larger than the extremism of both parties, meaning that $|X_L|$, $|X_R| < V^2$ Indeed, for smaller values of V, the valence dimension loses influence in the election and the results become trivial. I report these results in footnotes, and I refer the reader to Serra (2011) for a fuller analysis of a lower salience of valence.

In this model, candidates do not have policy preferences of their own. Rather,
they will adopt the policy preferences of their party. To be exact, the candidate will
behave as if having the exact utility function of the party that nominated her. She
will announce the platform designed by her party during the campaigns, and she
will implement such platform in case she wins the election.

¹Of course, note that $|X_R| = X_R$ and $|X_L| = -X_L$.

- ²⁷⁵ ²This is equivalent to assuming that $-V < X_L$ and $X_R < V$.

Fig. 1 The effect of a valence advantage for *R* over *L*



3.3 The General Electorate

The electorate cares about the policy implemented after the election. To simplify the analysis, I will assume that there is a median voter, which I call M, whose preferences are decisive in the election. I normalize her ideal point to zero.

In addition to the policy implemented x, the electorate also cares about the skill v of the winning candidate. The utility function of M is given by

$$U_M(x, v) = -|x| + v$$

M will vote for the party whose candidate maximizes her utility. I make the following indifference assumptions. If M is indifferent between the two parties, she will vote for the one whose candidate has the highest skill. If both candidates have the same skill, she will randomize equally between the two.

It is worth looking more closely at how the median voter makes her decision in this kind of model. As elaborated in Serra (2010), M's appreciation for a candidate decreases with the distance between her ideal point and that candidate's platform, and increases with the candidate's valence. In essence, the valence parameter v"shifts up" the utility function of M. An example of how M evaluates R and Lis illustrated in Fig. 1, where it is assumed that $v_L < v_R$ and $|x_L| < |x_R|$. In the case depicted in this figure, candidate R is strictly preferred to candidate L in spite of having a more extremist platform. Candidate R is able to win the election because her higher score in the valence dimension more than compensates her extremism in the policy dimension.

3.4 Timing and Solution Concept

³¹⁸₃₁₉ The timing of this election is the following:

1. Assessment of the candidates' skills: Parties announce their candidates who start campaigning. The candidates' campaigning skills v_L and v_R are observed.

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- 2. Assessment of the policy platforms: Candidates announce their platforms x_L and x_R .
- 3. The general-election vote: The median voter elects L or R.

Stage 1 does not involve any decision: the candidates are revealed to voters, along with their valence attributes. The first decision is made in Stage 2 where each candidate must announce and promote her platform taking the other candidate's platform into account. In Stage 3, once candidates' skills, v_L , v_R , and platforms, x_L , x_R , have been observed and assessed, the median voter elects L or R to office. All this information is common knowledge. The game must be solved by backward induction and the solution concept is subgame-perfect equilibrium (SPE) in pure strategies. It will be important to recall that a SPE requires that all strategies form a Nash equilibrium (NE) in every subgame.

3.5 Results of the General Election

Before stating the main results of this section, some important variables should be defined. I call Δv the difference in skill between R's candidate and L's candidate. To be concrete, $\Delta v \equiv v_R - v_L$. Note that Δv can take three values: $\Delta v \in \{-V, 0, V\}$. 342 I call x_L^* and x_R^* the equilibrium strategies of parties L and R, and x^* the winning 343 platform. These parameters will determine the results of the general election, as indicated in the main theorem on this section. It must be remember that valence was assumed to be salient enough that $|X_{I}|$ and $|X_{R}|$ are smaller than V, which implies 346 that $-V < X_L$ and $X_R < V$.

Theorem 1 The equilibrium strategies and equilibrium outcomes of this election for 349 given values of v_L , v_R , V, X_L and X_R are given in Table 1, where $\Delta v \equiv v_R - v_L$. 350

There are several comments to make about Table 1.³ First note the results when $\Delta v = 0$, that is, when there is no skill difference between the candidates. Both par-

355	Table 1 Equilibrium outcomes of the general election				
356 357	Value of Δv	Equilibrium platforms x_R^* and x_L^*	Winning platform x^*	Winning party	
358					
359	V	$x_R^* = X_R$	X_R	R	
360		$x_R^* = X_R$ $x_L^* \in \mathbb{R}$			
361	0	$x_{R}^{*} = 0$	0	R or L with	
362		$x_{L}^{*} = 0$		equal probability	
363	-V	$x_R^* \in \mathbb{R}$	X_L	L	
364		$x_L^* = X_L$			
365		L			

Table 1 Equilibrium outcomes of the general election

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³The proofs of all the results come in the Appendix.

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