

# Divided by the Vote: Affective Polarization in the Wake of Brexit

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## **Abstract\***

A well-functioning democracy requires a degree of mutual respect and a willingness to talk across political divides. Yet numerous studies have shown that electorates, including in the United States, are polarized along partisan lines, generating animosity towards the partisan out-group. In this paper, we further develop the idea of affective polarization, not by partisanship, but instead by identification with opinion-based groups. Examining social identities formed amidst Britain's 2016 referendum on European Union membership, we use numerous original surveys and experiments with a combined 18,329 respondents, as well as existing survey data, to measure the intensity of partisan and Brexit-related affective polarization. The results show that Brexit identities are prevalent, personally important, and cut across traditional party lines. Those identities generate affective polarization as intense as that of partisanship in terms of stereotyping, prejudice and various evaluative biases, convincingly demonstrating that affective polarization can emerge from identities beyond partisanship.

*Key words:* Affective polarization; Partisanship; Group identity; Brexit; Prejudices; Bias

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In recent years, scholars of American democracy have pointed to growing affective polarization along partisan lines. Republicans and Democrats have developed strong emotional attachments toward co-partisans and greater hostility towards opposing partisans (Iyengar et al 2012; Iyengar and Westwood 2015; Mason 2015, 2018). This is worrying as a well-functioning democracy requires that citizens and politicians are willing to engage respectfully with each other, even on controversial topics (Lipset 1959; Dahl 1967). Where we see instead mass polarization, we find intolerance and political cynicism (Layman et al. 2006) and reduced opportunities for collaboration and compromise (Valentino et al. 2008). But is affective polarization limited to political partisans? In this paper, we argue that such polarization can emerge along lines drawn not just by partisan loyalties, but also by identification with opinion-based groups. We thus aim to significantly expand the scope of identities and political contexts that might be examined through the lens of affective polarization. Building on theories of social identity, we argue that significant political events can generate affective polarization by causing people to identify with others based on a shared opinion on a specific issue. We study this phenomenon of opinion-based group identities in the wake of a critical juncture in British politics: the 2016 referendum on Britain's European Union (EU) membership. Our data suggest that affective polarization is a phenomenon not unique to partisanship, and that animosity across opinion-based groups can cross-cut longstanding partisan divisions.

We make three significant contributions. First, we present an original conceptualization of affective polarization based on an opinion-based in-group identity that focuses on three different core components: identification with an in-group based on a common cause, differentiation from the out-group leading to prejudice and animosity, and evaluative bias in perceptions of the world and in decision-making. Second, we examine this phenomenon empirically, using evidence from a large and diverse range of existing data,

original surveys, and novel experiments. We demonstrate the scope of affective polarization after the Brexit vote using implicit, explicit, and behavioral indicators. Lastly, we directly compare the impact of these new opinion-based Brexit identities to traditional partisan divisions. We find a similar degree of affective polarization for the new Brexit identities as for the party identities in terms of identification, differentiation, and evaluative bias. Moreover, Brexit identities cut across traditional party lines meaning that affective polarization is neither restricted to partisanship, nor a mere proxy for partisan affect. We argue that these new identities reflect pre-existing but less politicized social divisions, like age and education, which were mobilized in the context of the referendum and have consolidated into the newly salient identities: ‘Leave’ and ‘Remain’. These findings have important implications for the study of in-group identities and electoral democracy.

The paper proceeds as follows. We discuss the literature on in-group identities and affective polarization and present our conceptualization of opinion-based group identities. We then briefly introduce the context of the British referendum, and proceed to show evidence of identification with the in-group, differentiation towards the out-group, and evaluative biases for both Brexit and partisan identities. All three patterns are at least as large, if not larger, for Brexit identity compared to partisan identity. In conclusion, we discuss the sustainability of opinion-based cleavages and consider the conditions in which polarization along these lines is triggered.

### **Affective Polarization and Opinion-Based Groups**

*Inherent in all democratic systems is the constant threat that the group conflicts which are democracy’s lifeblood may solidify to the point where they threaten to disintegrate society.*

Seymour Martin Lipset (1959, 83).

Political conflict and competition are at the heart of democratic life (Schattschneider 1960; Rosenblum 2010). The classic ideal of democracy is not one absent of conflict, but rather one where a single conflict is not so entrenched and all-encompassing that society suffers (Dahl 1967). As the quotation from Lipset highlights, the health of democracy is threatened when conflicts solidify and political identities crystallize into polarized groups. At its most extreme, we can point to some ethnically divided societies where government-opposition dynamics are almost entirely replaced by ‘ethnic outbidding’ (Rabushka and Shepsle 1972) and where the democratic opposition is seen as ‘the enemy of the people’ by those in power (Horowitz 1993).

But mass polarization can also occur in societies not plagued by such divisions. The most prominent example is the increasing partisan polarization in American politics over the last few decades. While there remains some debate about the particular form of polarization at the mass level (Fiorina and Abrams 2008), the US public has become more divided along partisan and ideological lines in recent years (Hetherington 2009; Layman et al. 2006; Mason 2018). Most notably, there has been rising interpersonal animosity across party lines, with Democrats and Republicans increasingly expressing dislike for one another (Layman et al 2006; Iyengar et al 2012; Iyengar and Westwood 2015; Mason 2015). This phenomenon has been described as *affective polarization*, defined as an emotional attachment to in-group partisans and hostility towards out-group partisans (Green et al 2004; Iyengar et al. 2012; Iyengar and Westwood 2015). This is more than simply ideological polarization over political issues. Antipathy towards partisan opponents has escalated substantially among citizens. This has meant that increased in-party favoritism has been matched by greater negative stereotyping and out-group discrimination (Iyengar and Westwood 2015; Lelkes and Westwood 2017; Mason 2013, 2015; Miller and Conover 2015).

There are many worrying consequences of affective polarization. Out-group animosity makes it more difficult for citizens to deliberate without prejudice and to seek diverse perspectives on controversial topics (Valentino et al. 2008). This in turn impairs democratic dialogue, collaboration, and compromise (MacKuen et al. 2010) and may lead to the erosion of trust in political institutions and the democratic legitimacy of elected leaders (Layman et al 2006; Anderson et al 2005). Affective polarization also exacerbates ‘filter bubbles’ and ‘echo chambers’ as people become unwilling to engage (in person or on social media) with people from the other side (Levendusky 2013; Levendusky and Malhotra 2016.)

The concept of affective polarization is rooted in social psychological research on social identity and intergroup conflict, most prominently work on social identity theory by Henri Tajfel (Tajfel 1970, 1979; 1982; Tajfel and Turner 1979). The core idea is that group membership is an important source of pride and self-esteem. It gives each of us a sense of social identity. Yet it also means that our sense of self-worth is heightened by discriminating against, and holding prejudiced views of, the out-group (Tajfel 1970; Tajfel 1979). According to Tajfel and Turner (1979), there are three mental processes involved in shaping a social identity: social categorization, in which we distinguish between ‘us’ and ‘them;’ social identification, in which we adopt the identity of the group we have categorized ourselves as belonging to; and social comparison, in which we compare our own group favorably to others. This desire to compare oneself with an out-group creates competitive and antagonistic intergroup relations and can serve to further heighten identification with the in-group.

While social identity theory has proved extremely useful to political science (for an excellent review see Huddy [2001]), the identities considered, such as race, gender, and partisanship, have been the same social categories common to psychological research (Tajfel and Turner 1979; Mason 2015). Partisanship has been particularly central, after all ‘in the political sphere, the most salient groups are parties and the self-justifications that sustain

group life are primarily grounded in - and constructed to maintain - partisan loyalties' (Achen and Bartels 2016, 296; see also Klar 2014; Westwood et al., 2018). Less attention has been paid to other political identities, even though self-categorized social identities are inherently subjective (Turner 1982; McGarty et al. 2009).<sup>1</sup> And we argue that affective polarization can stem from political identities defined by shared political opinions. Our argument builds on a recent strand in the social psychology literature that has developed the notion of opinion-based groups (Bliuc et al 2007; McGarty et al 2009). Merely holding the same opinion as others is not sufficient for such a group to exist, rather the shared opinion needs to become part of a social identity. In other words, people need to define themselves in terms of their opinion group membership in the same way as they would any other meaningful social group, such as a religious denomination or political party. Opinion-based groups emerge in the context of salient inter-group comparisons; that is, situations where people are compelled to take sides on an issue. Research suggests such identities may emerge, or crystallize, in response to dramatic events, such as wars or man-made disasters (McGarty et al 2009; Smith et al 2015). We argue they can also emerge from politically engineered events, specifically referendums on political issues.

We conceptualize affective polarization of opinion-based groups as having three necessary components: (1) in-group identification based on a shared opinion, (2) differentiation of the in-group from the out-group that leads in-group favorability and out-group denigration, and finally (3) evaluative bias in perceptions of the world and in decision-making. The starting point of affective polarization is therefore that individuals must have internalized their group membership as an aspect of their self-identification. People form a

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<sup>1</sup> An exception to this is self-identification as a conservative or a liberal in the US. This has been shown to function as a social identity which is separable from issue positions (Malka and Lelkes 2010; Mason 2018; Kinder and Kalmoe 2017).

social identity (Tajfel and Turner 1979), but in this case it is based on group membership due to a common cause (McGarty et al 2009), rather than organized around a social category. Similar to partisanship, ‘people think of themselves as members of a group, attach emotional significance to their membership and adjust their behavior to conform to group norms’ (Bartle and Belluci 2009, 5).<sup>2</sup> The next step is that people must favorably compare their own group with the out-group. The aim of this differentiation is to feel superior to the out-group (Tajfel and Turner 1979) and a second indicator of affective polarization is therefore prejudice towards and stereotyping of members of the out-group. The final step is that group competition must also spill over into political perceptions and political and non-political decision-making. When it comes to opinion-based polarization, in-group bias will be an omnipresent feature that affects opinions and decision-making in ways that go beyond the specific in-group conflict. People will evaluate political outcomes via the lens of their identity and people will make decisions based on that identity. To diagnose affective polarization, we should therefore observe all three of these factors: identification, differentiation, and evaluative bias. In the remainder of the paper, we examine these different aspects of affective polarization across opinion-based group membership in the context of the 2016 referendum on Britain’s EU membership.

### **The 2016 Brexit Referendum**

On June 23, 2016, British voters were asked in a nationwide referendum: ‘Should the United Kingdom remain a member of the European Union or leave the European Union?’. Despite

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<sup>2</sup> Equally, Mason (2015) demonstrates partisan social polarization in terms of our second and third components: affect (anger) toward the outgroup and then judgment (bias) and behavior (activism) towards the out-group.

the ‘remain’ side having the endorsement of all the major parties in Parliament,<sup>3</sup> 52 percent of the British electorate voted to exit the EU (‘Brexit’). This sent shockwaves through Britain and Europe. Never before had a member state decided to leave the European Union. Although leaders of both major parties now support Britain leaving the EU, it is not clear that the public has universally rallied behind Brexit. Instead, and as we will show, the Brexit referendum and campaign triggered affective polarization over the issue of leaving or remaining in the EU that continues to divide society. Perhaps surprisingly, this has occurred even though the question of EU membership and European integration was not a highly salient issue to the electorate before the referendum. During the 2015 General Election, only one year ahead of the referendum vote, less than 10 per cent of people identified the EU as the among the two most important issues facing Britain,<sup>4</sup> and the issue of the EU played a minimal role in the election campaign. Prior to the referendum, Britain’s role in the European Union was not a highly salient political issue, let alone a social identity, among voters. The opinion-based group identities ‘Leaver’ and ‘Remainer,’ which we will show have come to take on considerable meaning for large shares of British voters, have no long-term history in British politics. There were no labels for sides in the Brexit debate until the campaign itself.<sup>5</sup>

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<sup>3</sup> However the governing Conservative Party was openly divided with several cabinet members campaigning to leave the EU. Some high-profile members of the Labour Party also endorsed Leave (Hobolt 2016; Evans and Menon 2017).

<sup>4</sup> See IPSOS Mori (2018) for time series data on the question: ‘What would you say is the most important issue facing Britain today? What do you see as other important issues facing Britain today? (Unprompted - combined answers)’ <https://www.ipsos.com/ipsos-mori/en-uk/issues-index-2007-onwards>

<sup>5</sup> Indeed, ‘leave’ and ‘remain’ were seemingly innocuous labels created by a decision of the UK Electoral Commission in September 2015 to improve the intelligibility of the referendum question (Electoral Commission 2015) which had originally been worded to ask voters, ‘Should the United Kingdom remain a member of the European Union?’ with the options ‘yes’ and ‘no.’



The aftermath of the Brexit referendum is thus an apposite case for the study of affective polarization around opinion-based groups. Social identity theory suggests that salient group identities emerge when people are compelled to take sides in a debate. A referendum that asks people to take a stance in favor (Leave) or against (Remain) exiting the EU, is such a case. Moreover, the question of leaving the EU was unusual in that it cut across traditional party lines meaning that the divisions resulting from the referendum were not immediately subsumed into the existing party divide. Yet, while a burgeoning body of literature has examined the determinants of voting behavior in the referendum (Goodwin and Heath 2016; Hobolt 2016; Becker et al 2017; Clarke et al 2017; Evans and Menon 2017), we know very little about the way in which the vote has divided people subsequently.

## **Data**

To empirically examine affective polarization in the context of Brexit we use multiple sources of survey and experimental data. All of our data comes from public opinion surveys that are designed, and further weighted, to be representative of the British population. Table 1 presents an overview of these datasets. We rely upon both the largest existing data source on public attitudes toward the referendum, namely the British Election Study 2016-2017 panel, as well as a series of original public opinion surveys and survey experiments conducted in 2017 and 2018. Most of these surveys were conducted by YouGov, a prominent polling organization that uses quota sampling and reweighting methods to generate nationally representative samples from an online, opt-in pool of tens of thousands of potential respondents. We also supplement these data further with surveys from Sky Polling, which applies similar methods to a panel consisting of subscribers to the widely used Sky satellite television service.<sup>6</sup> This variety of data sources means that all our results come from

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<sup>6</sup> Approximately 12 million UK households (44 per cent) have a Sky subscription.

nationally representative samples, but are not dependent on any single data source or survey methodology. Given the number and diversity of research designs and measures deployed, we describe each alongside its results in what follows.

**Table 1.** Data sources

<b>Abbreviation</b>	<b>Full description</b>	<b>Time period</b>	<b>Question coverage</b>	<b>N</b>
<i>BES</i>	British Election Study multi-wave panel survey	7 waves from April 2016 to June 2017	Party identity, Brexit identity <sup>a</sup> and emotional attachment to both identities	Between 3,000 and 15,000 per wave
<i>Tracker</i>	YouGov repeated cross-sectional survey	5 waves from April 2017 to April 2018	Brexit identity <sup>b</sup> , economic perceptions (Jan 2018) and party identity (Jan 2018)	8,218 (~1,600 per wave)
<i>YouGov</i>	YouGov cross-sectional survey	September 2017	Party identity, Brexit identity <sup>b</sup> , prejudice and perceptions for both identities	3,326
<i>Sky</i>	Sky Polling cross-sectional surveys	October and November 2017	Party identity, Brexit identity <sup>b</sup> , emotional attachment and prejudice for both identities	3,481
<i>BBC</i>	YouGov conjoint experiment about choice of BBC Director-General	October 2017	Out-group prejudice and in-group bias	1,635
<i>Lodger</i>	YouGov conjoint experiment about choice of a lodger	October 2017	Out-group prejudice and in-group bias	1,669

a. Question asks whether respondent thinks of themselves as ‘closer to the either the Leave or Remain side’

b. Question asks whether respondent thinks of themselves as a Leaver or Remainer.

*Note:* All survey respondents are drawn from online panels involving quota sampling, which are then weighted to be representative of the British population with respect to demographic characteristics.

## Results

As we argued above, there are three key components of affective polarization along opinion-based lines: in-group identification, group differentiation (especially prejudice towards members of the out-group), and evaluative bias in both perceptions and decision-making. We thus begin by examining the prevalence of Brexit identities in the electorate using the BES, YouGov, Sky, and Tracker surveys as well as the strength and importance of these identities

using the BES and Sky surveys. Next, we examine how those with Leaver and Remainer identities stereotype those on each side of the divide and the extent to which they display prejudice against their Brexit out-group using Sky and YouGov surveys. Then we show how these identities color citizens' perceptions of economic performance in a manner that cross-cuts partisan identities. Finally, we measure the degree to which Brexit identities shape judgments of political and non-political choices using the revealed choice conjoint experiments.

### *Identification*

Our starting point is simply the proportion of people willing to express an identity linked to the referendum. The top half of Table 2 shows two ways of measuring Brexit identity. The question most similar to the standard party identity question was included in the YouGov and Sky surveys and asks people: 'Since the EU referendum last year, some people now think of themselves as Leavers and Remainers, do you think of yourself as a Leaver, a Remainer, or neither a Leaver or Remainer?'. This mirrors the standard party identity question which asks people: 'Generally speaking, do you think of yourself as Labour, Conservative, Liberal Democrat or what?'<sup>7</sup> The BES survey uses a slightly different format which does not mention the two identities and encourages people to pick a side: 'In the EU referendum debate, do you think of yourself as closer to either the Remain or Leave side?'

The second half of Table 2 also shows that both types of identities are equally strongly held. We show a measure of emotional attachment to people's own identity using a battery of

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<sup>7</sup> A list of parties is then provided to respondents which, as well as Conservative, Labour and Liberal Democrat, also includes the SNP (in Scotland only), Plaid Cymru (in Wales only), UKIP, the Greens, the BNP, 'other' party and none. For both party and Brexit identity, people are given a 'don't know' option. We have coded this as equivalent to no identity.

five questions. These questions create a similar scale to that used by others (see Huddy et al 2015; Greene 2000; Green et al 2004) and ask people whether they agree or disagree with the following in regard to their own identity:

- When I speak about the [respondent identity] side, I usually say “we” instead of “they”
- When people criticize the [respondent identity] side, it feels like a personal insult
- I have a lot in common with other supporters of the [respondent identity] side
- When I meet someone who supports the [respondent identity] side, I feel connected with this person
- When people praise the [respondent identity] side, it makes me feel good

Response options for all items were ‘strongly disagree’ to ‘strongly agree,’ scored 1-5 and averaged.<sup>8</sup> For the two main party identities the average score is around the midpoint of the scale for both datasets. Interestingly this is not much lower than the scores for responses to similar questions asked in the US (Green et al 2004, 38; Huddy et al. 2015, 7). More importantly for our purposes, these emotional attachment scores are slightly higher for Brexit identities than they are for party identities. This is especially obvious for the Sky data which use the Brexit identity question which is most analogous to the party identity question.

**Table 2.** Comparison of the strength of party and Brexit identities

	Party identity		Brexit identity	
	Conservative	Labour	Leaver	Remainer
<i>Proportion of people with identity</i>				
BES - June 2017	26%	30%	43% <sup>a</sup>	44% <sup>a</sup>
YouGov - Sep 2017	27%	31%	37%	38%
Sky – Oct/Nov 2017	32%	35%	35%	35%
<i>Brexit identity scale (1-5 scale of 5-question battery)</i>				
BES - June 2017	2.9	3.0	3.0	3.1

<sup>8</sup> These items form very reliable scales for both identities. The Cronbach’s Alpha scores for the BES data are .84 for Leavers, .85 for Remainers, .81 for Conservatives and .82 for Labour identifiers. Alpha scores for the Sky data are .79 for Leavers, .74 for Remainers, .86 for Conservatives and .80 for Labour identifiers.

Sky – Oct/Nov 2017	2.9	3.0	3.4	3.4
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a. Question asks whether respondent thinks of themselves as ‘closer to the either the Leave or Remain side’, rather than whether they think of themselves as a Leaver or Remainer.

*Note:* The BES data have a total unweighted N of 31,197. The YouGov data have a total unweighted N of 3,326. The Sky data have a total unweighted N of 1,692 for party identity and 1,702 for Brexit identity. The emotional attachment scale consists of five questions (with a 1-5 Likert scale) that ask respondents with an identity whether a) they talk about ‘we’ rather than ‘they’, b) criticism of their side feels like a personal insult, c) they have a lot in common with people on their own side, d) they feel connected with other supporters of their own side and e) they feel good when people praise their own side. High scores indicate greater agreement. These questions were only asked of those with a relevant political identity.

Overall, Table 2 reveals that not only are slightly more people willing to claim a Brexit identity than a party identity, but the attachment that people have to that Brexit identity is, if anything, slightly stronger than their party identity. Moreover, these Brexit identities appear to be stable at the aggregate level. Figure 1 shows the numbers of people with a Brexit identity over time for seven waves of the BES from April 2016 until June 2017 and for five waves of the Tracker survey from April 2017 until April 2018. Whether measured using the BES closeness question or the Tracker identity question, the numbers of people with an identity are almost completely static over time. Around three quarters of people in Britain think of themselves as Leavers or Remainers and this has been the case since the beginning of the referendum campaign in early 2016 through to today. Most importantly there is aggregate level stability in the numbers within each identity grouping, suggesting the same kind of unmoving affective identity as partisanship. About half of those with identities are Leavers and half are Remainers, no matter what month we choose. These proportions have not changed since the referendum result.<sup>9</sup>

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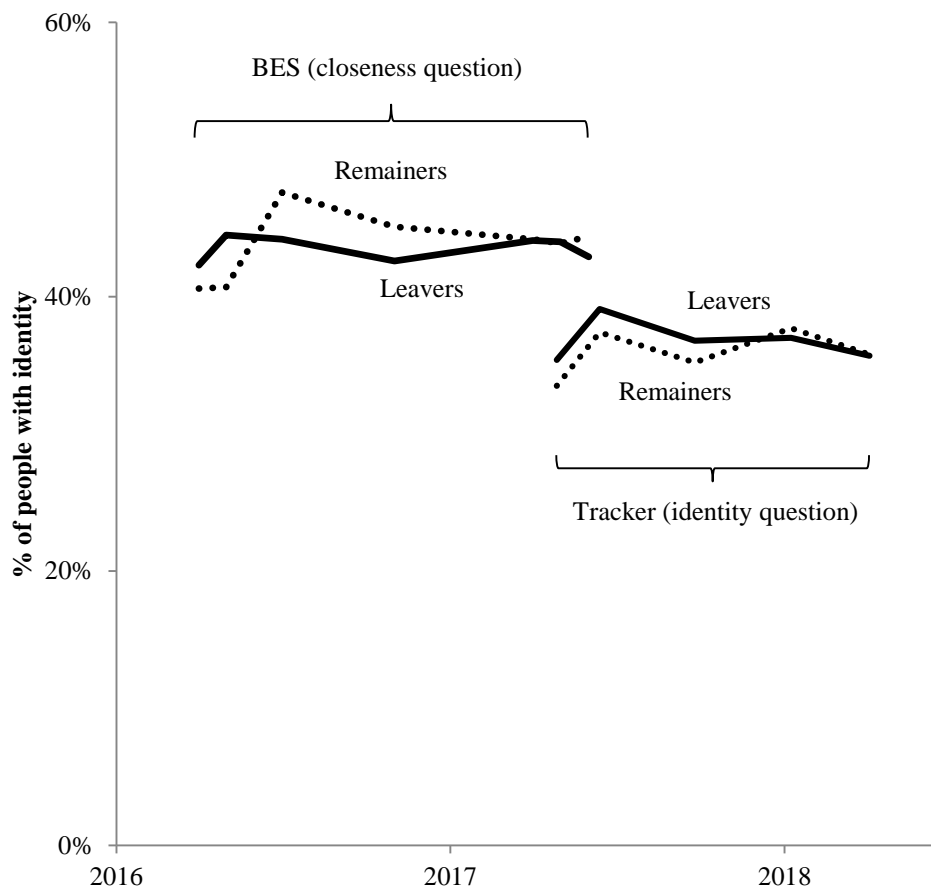
<sup>9</sup> As the BES data are a repeated panel we can also look at the proportion of people who move in and out of an identity over time. These numbers look very similar for party and Brexit identities. For example, 81 per cent of people have the same party identity in June 2017 as they did in July 2016, whereas 87 per cent of people have the same Brexit identity in June 2017 as they did in July 2016. In both cases most of the movement is from, and into, no identity, rather than movement between different identities.

Of course while Brexit identities are a new part of British politics, they could reflect underlying societal divides that predate the referendum. Research into the determinants of the Brexit vote (Hobolt 2016; Evans and Tilley 2017; Jennings and Stoker 2017; Ford and Goodwin 2017; Curtice 2017a; Richards et al 2018) indicate that the referendum mobilized an underlying fault line between social liberals with weak national identities, who tend to be younger and have more educational qualifications, and social conservatives with stronger national identities, who tend to be older with fewer educational qualifications. Using BES data, Appendix 2 in the Supplementary Information confirms that the key socio-economic predictors of a Leave identity relative to Remain identity are age and education. By contrast, measures of social class (such as income, occupation and housing tenure) continue to matter more for partisan identities than for Brexit identities despite sharp falls in class voting in Britain in recent decades (Evans and Tilley 2017).<sup>10</sup> The correlates of Brexit identity are clearly important, but in this paper we are interested in how such political divides manifest themselves as social identities that facilitate affective polarization. Whether the social and political forces driving diverging preferences about European integration are new or not, the labels provided by the referendum campaign certainly are. It is those labels that allow people to self-identify as a member of one opinion-based group or the other. It is also those labels that allow for differentiation, favoritism towards the in-group, and animosity towards the out-group, which is our interest here.

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<sup>10</sup> The importance of education as a predictor of Brexit identity links to the rise of the cultural dimension in politics across Europe. Divides along transnational integration–demarcation dimensions (Kriesi et al 2006, 2008; Hooghe and Marks 2018) are increasingly salient elsewhere in Europe. This dimension is distinct from the traditional economic left–right dimension and is focused more on identity and cultural concerns.

**Figure 1.** Brexit identities over time



*Note:* The BES asks whether respondent thinks of themselves as ‘closer to the either the Leave or Remain side’ and includes seven waves from April 2016 to June 2017. The Tracker data comprise five cross-sectional surveys from April 2017 to April 2018 and ask whether people think of themselves as a Remainder or a Leaver.

### *Differentiation*

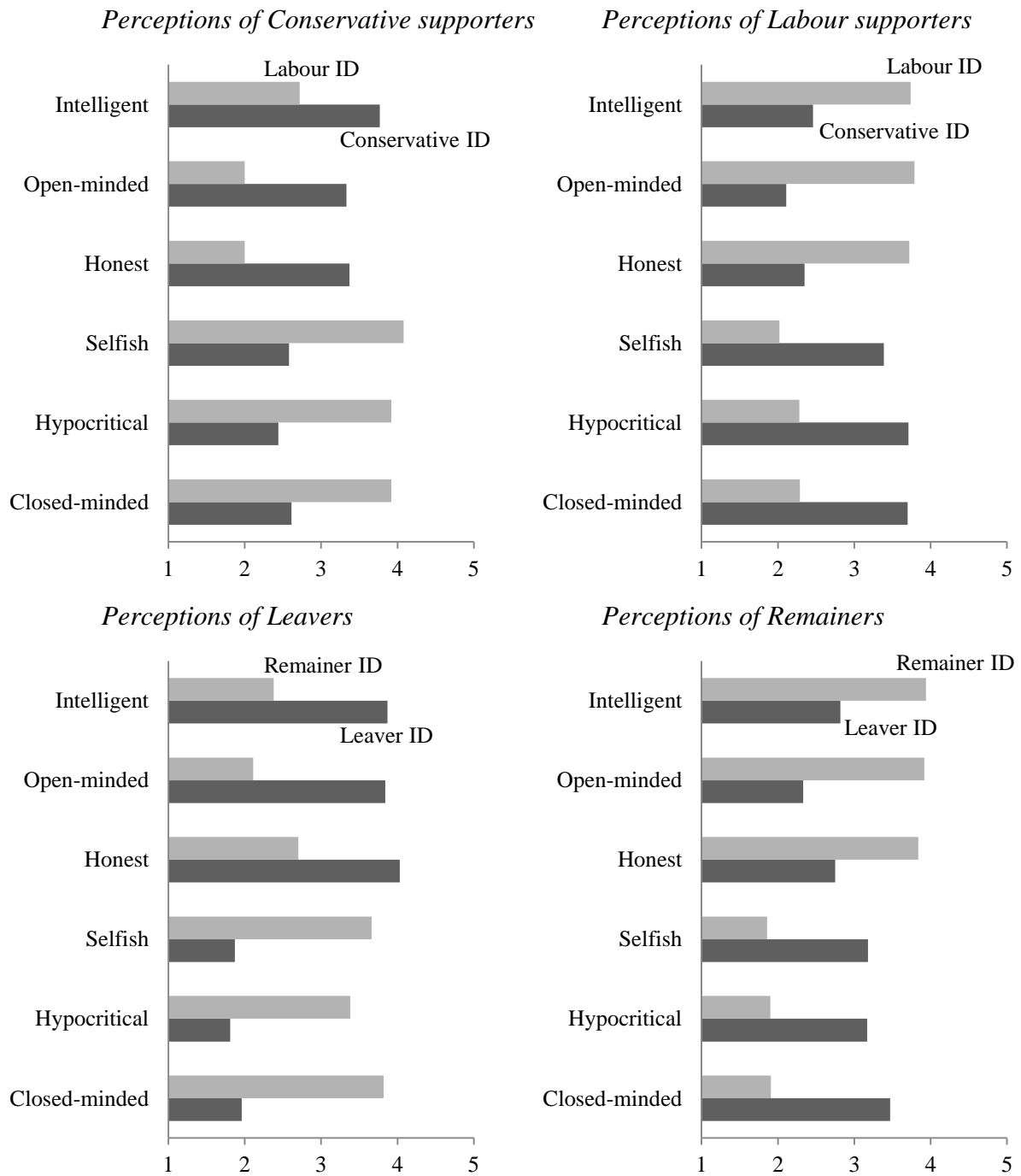
For the emergence of Brexit identities to constitute affective polarization, we expect to see Leavers and Remainers stereotype their in-group and out-group and express animosity toward the out-group. Figure 2 shows people’s perceptions of their own and the other side in terms of three positive personal characteristics (intelligent, open-minded, honest) and three negative personal characteristics (selfish, hypocritical and closed-minded). This list of traits is similar to that used by Iyengar et al (2012) to examine partisan polarization over time and space. Respondents were asked how well they thought these six different characteristics described

their own, and the other, side on a five-point scale from ‘not at all well’ to ‘very well’. ‘Very well’ is scored 5 and ‘not at all well’ is scored 1. We focus on both differentiation along partisan lines, as a baseline, and differentiation along the lines of Brexit identity.

The top two graphs in Figure 2 show mean perceptions by party identity. We see a familiar story. Perceptions of Conservative supporters, graphed on the left, are very different for people who are themselves Conservative identifiers compared to those who are Labour identifiers. Conservative partisans score their in-group above 3.5 in terms of intelligence, honesty and open-mindedness, but are much more reluctant to say that their in-group are selfish, hypocritical or closed-minded. The exact opposite is true for Labour partisans who score Conservative supporters at nearly 4 in terms of their selfishness, hypocrisy and closedmindedness, but are extremely unlikely to say that Conservatives might be intelligent, open-minded or honest. The top right-hand graph shows perceptions of Labour supporters. Again, Labour identifiers only attribute positive characteristics to their in-group while Conservative identifiers only attribute negative characteristics to their out-group.



**Figure 2.** Perceived characteristics of own side and other side



Note: These are mean scores on a 1-5 Likert scale of agreement that these characteristics describe people with a particular political identity. Data is from the YouGov survey in September 2017. For the party identity descriptions, the unweighted N is 1,648. For the Brexit identity descriptions, the unweighted N is 1,678.

Fascinatingly, we see the very same patterns for Brexit identities in the two bottom graphs. Remainers and Leavers are much more likely to attribute positive characteristics to

their own side and negative characteristics to the other side. The magnitude of these differences is very large. Remainers’ average score for the three positive characteristics about their own side is 3.9 while their average score for the three negative characteristics about their own side is just 1.9. The gulf between agreement with negative and positive attributes of the out-group is also huge. For Remainers’ perceptions of Leavers, the average score for the three positive characteristics is 2.4, yet the average score for the three negative characteristics is 3.6. Nor are these views of Leavers and Remainers driven by party identity. Appendix 3 contains four OLS regressions that predict whether people have positive and negative views of both sides using both party identity and Brexit identity. All four models show very large effects of Brexit identity and very weak effects of party identity on perceptions of Remainers and Leavers.

**Table 3.** Prejudice against the other side

	Party identity		Brexit identity	
	Conservative	Labour	Leaver	Remainer
<i>Happy with child marrying other side</i>				
YouGov - Sep 2017	24%	19%	45%	30%
Sky – Oct/Nov 2017	25%	16%	36%	23%
<i>Happy to talk politics with other side</i>				
YouGov - Sep 2017	43%	46%	56%	58%
Sky – Oct/Nov 2017	53%	41%	51%	47%

Note: The YouGov data have a total unweighted N of 3,326. The Sky data have a total unweighted N of 1,692 for party identity and 1,702 for Brexit identity

Ask about their interest in forms of social interaction with members of the in-group and out-group, respondents readily expressed prejudice toward the out-group and favoritism toward the in-group. Table 3 shows the proportions of respondents who say that they would be happy with a child of theirs marrying someone from the other side and the proportion that are happy to ‘talk politics’ with someone from the other side. Only around half would be happy to talk politics with the other side, whether that side is defined by Brexit choice or

party identity. Even more strikingly, only a third on average of those with a Brexit identity would be happy about a prospective son or daughter in-law from the other side. Levels of partisan prejudice are only slightly higher.

### *Evaluative bias – perceptions*

The final indicator of affective polarization is evaluative bias in perceptions and decision-making. We start by examining how Brexit identities shape people's view of the world. There is a wealth of evidence for the partisan 'perceptual screen' when it comes to economic performance. Supporters of parties in government consistently tend to think that the economy performed better than supporters of opposition parties (Wlezien et al 1997; Bartels 2002; De Boef and Kellstedt 2004; Evans and Pickup 2010; Tilley and Hobolt 2011; Enns 2012; Bisgaard 2015). As Achen and Bartels (2016, p276) bluntly put it, people 'use their partisanship to construct "objective facts"'. A similar process of motivated reasoning should apply to people with Brexit identities. Leavers, who were on the winning side in the referendum, should have a more positive view of past economic performance than Remainers. We asked respondents in January 2018 how they thought the economy had performed over the last 12 months on a 1-5 scale (the standard way of measuring retrospective economic perceptions). Table 4 shows the results of an OLS regression predicting people's scores on this scale with party identity and Brexit identity as predictors. Higher scores indicate a rosier view of economic performance during 2017.

As expected, there is a gap between Conservative and Labour identifiers in their assessment of the economy. Conservative identifiers, whose party was in government, were slightly over one-half of a point on the 1-5 scale more positive about British economic performance in 2017 than were Labour identifiers. Yet, even holding constant party identity, we see large effects for Brexit identity. Leavers are almost three-quarters of a point more

positive than Remainers. The effect of Brexit identity is greater than that of party identity in producing biased retrospective views of the economy.

**Table 4.** Predicting retrospective economic perceptions

		<i>B</i>	<i>SE</i>
<i>Brexit identity</i>	Leaver	0.24*	0.06
	Remainer	-0.49*	0.06
	No identity	-	
<i>Party identity</i>	Conservative	0.28*	0.06
	Labour	-0.30*	0.06
	Other party	-0.13	0.07
	No identity	-	
Constant		2.55*	0.05
Adjusted R <sup>2</sup>		0.20	

Note: \* =  $p < 0.05$ . The data come from the January 2018 Tracker survey and have a total unweighted N of 1,418. The dependent variable asks respondents ‘How do you think the general economic situation in this country has changed over the last 12 months’ with five options (got a lot worse, got a little worse, stayed the same, got a little better and got a lot better) coded from 1-5.

#### *Evaluative bias – decision making*

Another component of evaluative bias that we examine is how decision-making outside the political realm is shaped by Brexit identities. We are interested in knowing whether these social identities also spill over into decisions, possibly even discrimination, on non-political matters. Specifically, we conducted two similar conjoint experiments that asked respondents to choose between alternative candidates to be Director-General of the BBC and, separately, to be a lodger in their home. The advantage of using a conjoint design is that it allows us to uncover the relative influence of different factors in how people make decisions over bundled outcomes (Auspurg and Hinz 2015; Hainmueller et al 2014; Jasso 2006). Borrowed from marketing research, where it is used to study purchasing decisions, this methodology has recently been used in public opinion research to study complex opinion formation processes such as support for immigration policies (Bansak et al 2016; Hainmueller and Hopkins 2015), voting for candidates (Hainmueller et al 2014) and preferences for labor market reform

(Gallego and Marx 2017). In a conjoint study, participants are shown a series of vignettes that vary according to a determined set of features, with combinations of features randomly varied. In our studies, each sample was conducted on a distinct sample of approximately 1600 respondents (see Table 1), with each respondent making choices over five pairs of full randomized candidate profiles. The features in the two designs varied along salient characteristics, such as age, sex, hobbies, and work experience in the case of the lodger experiment and age, sex, education and career background for the BBC experiment. In both experiments we also included two political features: namely, the candidate's partisan position in the 2017 UK General Election (Conservative, Labour, or none) and their stance on the 2016 referendum (Leave, Remain, or none).

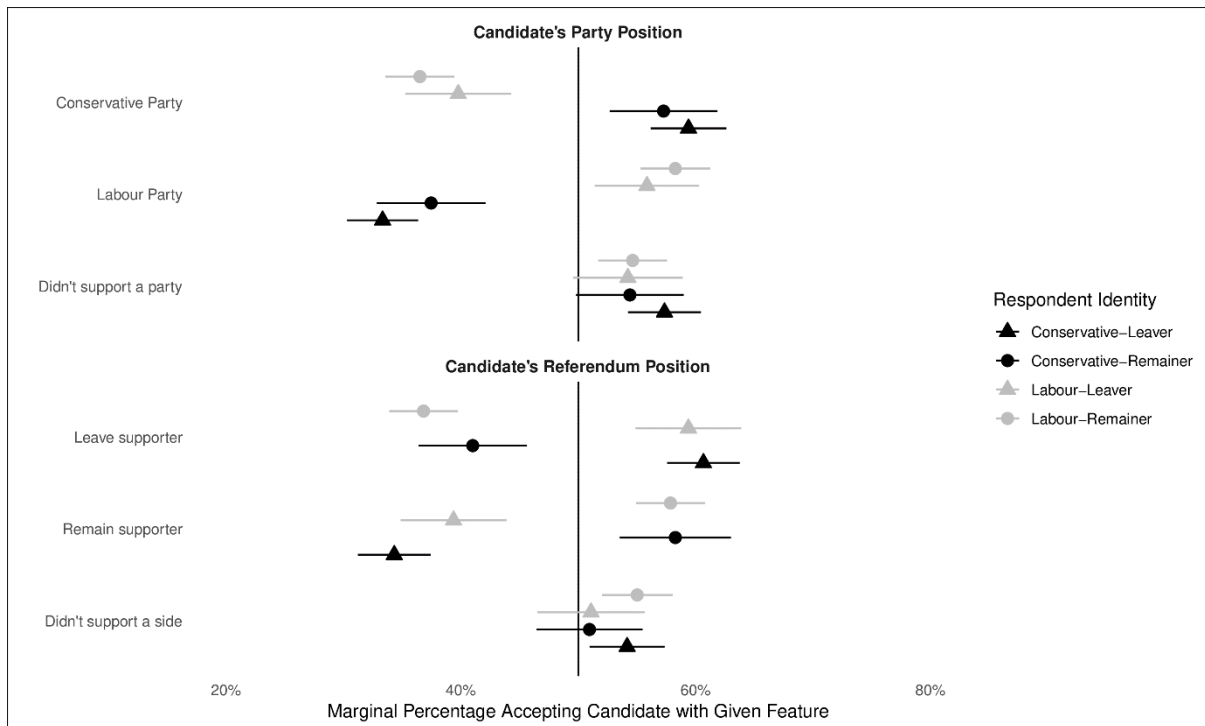
The full results of preferences for both the BBC Director-General and lodger experiments are in Appendix 4, but Figures 3 and 4 present the key results. Here we show the marginal mean outcomes for the two political factors: that is the percentage of times respondents chose profiles with the specified feature, marginalizing across the other features.<sup>11</sup> Figure 3 shows the marginal means for the party position and referendum position features of the BBC Director-General experiment separately for people that identify as a Conservative and a Leaver; a Conservative and a Remainer; Labour and a Leaver; and Labour and a Remainer. There are large effects of partisanship and Brexit identity. In the upper half of Figure 3, Labour partisans prefer a Labour supporting Director-General;

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<sup>11</sup> Appendix 4 in the Supplementary Information reports full results in the form of average marginal component effects (AMCEs; see Hainmueller et al 2014). Positive AMCEs convey features that make a candidate more attractive, while negative AMCEs convey features that make a candidate less attractive. The advantages of marginal means are simplicity of presentation and clarity of base rates for reference categories. In general, the factors that we might expect to make for an attractive BBC Director-General (previously worked as a television producer at the BBC for a long time) and for an attractive lodger (has a job, likes cooking and does voluntary work) positively affect people's choices.

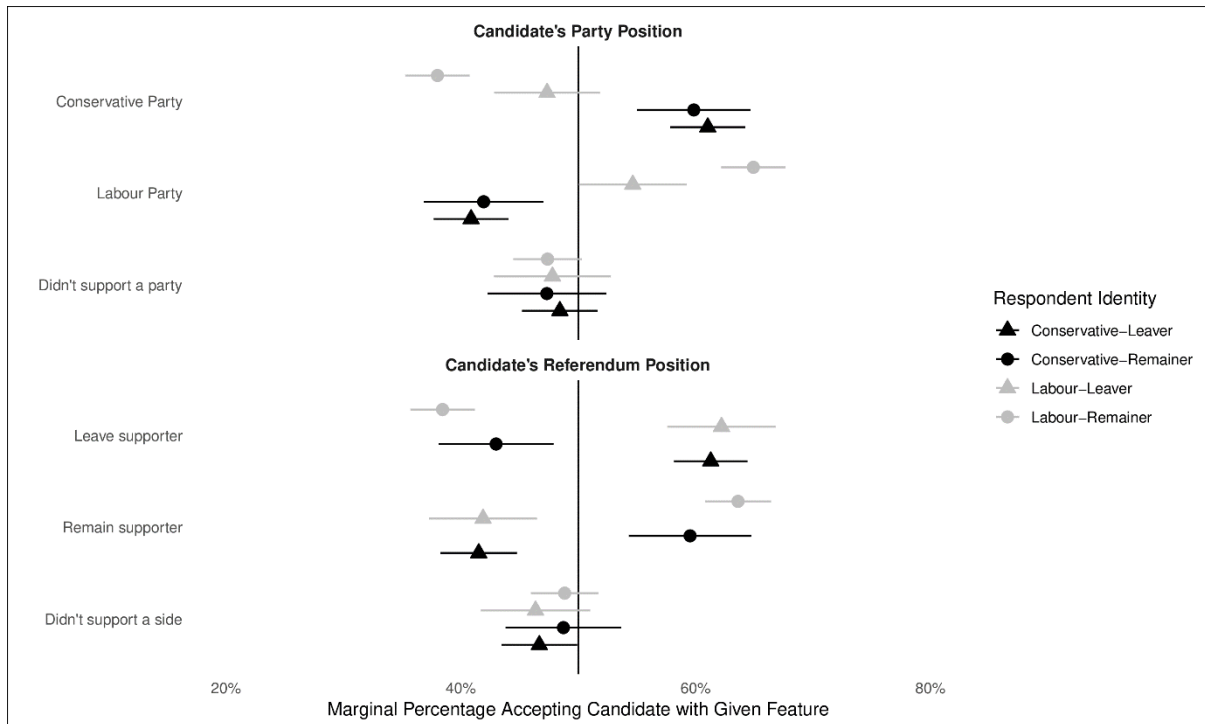
Conservative partisans prefer a Conservative supporter. These effects are matched in size by the difference in preferences between Leavers and Remainers shown in the lower half of Figure 3. Regardless of someone’s partisanship, respondents prefer the head of the BBC to have a similar Brexit identity. For example, while less than 40 per cent of Labour-identified Remainers would pick a candidate who was a Leaver, holding everything else equal, nearly 60 per cent of Labour-identified Remainers would pick a fellow Remainer. On average, the effects of Brexit identity are slightly greater than partisanship.

**Figure 3.** Results from BBC Conjoint Experiment by Leave and Remain Identity



We see very similar patterns in Figure 4 for the lodger experiment. Remainers prefer to live with a fellow Remainer than a Leaver, and Leavers prefer to live with a fellow Leaver than a Remainer. Again, these effects are large, and again they are bigger than the partisan effects. The Brexit divide cross-cuts, and even exceeds, the partisan divide.

**Figure 4.** Results from Lodger Conjoint Experiment by Leave and Remain Identity



*Note:* These are marginal mean outcomes from a discrete choice conjoint experiment, estimated separately for different types of respondents by their partisan and Brexit identity. Data is from the BBC YouGov survey (n=1,653) and Lodger YouGov survey (n=1669) conducted in October 2017. Error bars reflect 95% confidence intervals, clustered by respondent with each respondent completing five binary choice decision tasks.

## Discussion

‘Political behavior researchers are often struck by the absence of group conflict despite the existence of distinct and salient groups’ Huddy (2001, 137) has noted. Much research has therefore focused on the rare cases where long-standing social identities generate considerable tension, such the partisan divide in the United States or inter-ethnic tensions in other parts of the world. Yet, we describe a situation in which distinct and salient groups emerged over a relatively short period of time and now generate group conflict on par with that of partisanship. Building on theories of social identity, we advance the conceptualization of affective polarization, arguing that such animosity can be mobilized across opinion-based

groups in the context of significant political events. Unlike partisan loyalties, opinion-based groups are defined by shared opinions on a specific issue or shared cause. We study this phenomenon of opinion-based group identities in the wake of a critical political juncture: Britain's 2016 referendum on EU membership. Our results clearly suggest that affective polarization is a phenomenon not unique to partisanship. Indeed, we show that polarization along the Brexit divide is as large, or larger, than partisan affective polarization and its effects cross-cut partisan identities.

We thus make a significant contribution to political science literature on political behavior by introducing the concept of opinion-based groups to the political science literature and extending the theory of affective polarization to conflict along these opinion-based group lines. Empirically, we are the first to demonstrate these polarization dynamics outside the US context and along nonpartisan lines in all three areas of affective polarization: identification, differentiation, and evaluative bias. While theorizing about the origins of affective polarization remains underdeveloped, our work suggests that long-term ideological polarization, at either the elite or mass level, is unlikely to be the only potential cause of new opinion-based identities. Brexit-related identities and polarization emerged despite no longstanding leave/remain divide and in a manner that cross-cut partisan identities. This implies that shorter-run dynamics can play an important role in triggering democratically occurring forms of prejudice, discrimination, and bias. At the same time, however, we do not think that all issue debates – regardless of their degree of underlying disagreement – can generate the consistent and intense patterns of polarization demonstrated here. Part of the reason for that is the prevalence of the underlying opinion-based group identities and their perceived importance to large shares of the British public. Although some people hold views on many different issues and consider those views personally important, such issue publics are generally understood to be small and narrow (Converse 1964; Krosnick 1990). In the case



of Brexit, opinion-based identities are now held by over 70 per cent of the public and the intensity of those identities is similar to partisanship. The national referendum and surrounding debate seems necessary, but insufficient, to have generated such polarization.

This is important because not all events of direct democracy, or political debates more generally, create such deep divides. Referendums are frequent occurrences in many democracies, yet few appear to generate salient and lasting polarization. In this case, we suspect that the cross-cutting nature of partisan and Brexit identities plays an important role. Most national referendums reflect the playing out of elite partisan competition at the mass level (Leeper and Slothuus N.d.; Prosser 2016) and many EU referendums showcase second-order evaluations of national governments (Garry et al. 2005; Hobolt 2009). But the Brexit referendum occurred orthogonally to the traditional partisan divide and has not been subsumed into normal lines of party competition. Future research could build on this study to better understand the complex reasons why affective polarization sometimes occurs, but at other times does not.

This paper also raises a number of other important questions. One such question is how affective polarization along opinion-based group lines evolves in the long-run: does it fade away as the political event which triggered the social identities become less salient? It is certainly possible that Brexit identities will eventually become less important to individuals as a settlement on UK-EU relations is reached. However, to date there is no evidence of a weakening of Brexit identities or a ‘coming together’ of the two groups. Another possibility is that affective polarization on the Brexit issue will lead to a more fundamental realignment of the British political system. According to Carmines and Stimson’s seminal work on issue evolution, realignments are precipitated by the ‘emergence of new issues about which the electorate has intense feeling that cut across rather than reinforce existing bases of support for political parties’ (Carmines and Stimson 1981: 107). We have shown that the Brexit

referendum has led to the emergence of intensely felt identities that cross-cut partisan divisions. This leaves open the possibility that affective polarization along Brexit lines will eventually lead to a more fundamental change in the UK party system. The major political parties could align their positions firmly with one of the two opposing positions on future UK-EU relations leading voters to discard old party attachments in favor of new patterns of support. Indeed, we could see a similar change in Britain, albeit precipitated in a very different way, to the Southern realignment in the US (Stanley 1988; Valentino and Sears 2005) and the shift from the main dimension of party competition being economic left-right policy to social conservative-liberal policy. The 2017 General Election in Britain gave some early indications that this could already have started (Curtice 2017b; Heath and Goodwin 2017; Jennings and Stoker 2017; Tilley and Evans 2017; Prosser 2017; Hobolt 2018).<sup>12</sup>

Whether there is a party realignment or not, it is clear that the EU referendum activated an important new divide in British society. Intensely felt political division seems to be an all-too-familiar feature of 21<sup>st</sup> century democratic politics. Ultimately, any time such division emerges, normative questions are raised about what this means for this democratic society, what might ameliorate the present tensions, and how democratic practice might be improved. Answers to these three questions might be the lack of democratic deliberation, the potential value of a more deliberative democracy, and deeper institutionalization of deliberative processes, respectively (Dryzek and Niemeyer 2006; Thompson and Gutmann 1996). The deliberative response is to seek consensus by an airing of rival arguments. Yet the apparent unwillingness of citizens even to speak across the divide, let alone respect or befriend one another, would seem to undermine the possibility of a deliberative cure. Other answers need to be found. The task may not be to find consensus across the divide, but instead to help citizens to recognize one another not as enemies and out-groups but as

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<sup>12</sup> Although see Johnston et al. (2018) for a dissenting view.

adversaries with a shared collective identity disagreeing over the outcomes of policy debate (Mouffe 1999). In that sense, perhaps political scientists, and political theorists, should move beyond trying to understand how to overcome political disagreements, and focus more on how those disagreements can be sustained without yielding deleterious social consequences.

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