

Relocation choice for different homophily preferences: hybrid scenarios for Schelling Model

Rocco Paolillo, ~~Andreas Flache~~
Andreas Flache

HERE SOME NOTES TO BEAR IN MIND

Annex A for β secondary = β dominant * w (df_secf.csv) and ideas

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Abstract

Rocco: 200 words, 3-5 keywords Schelling model of residential segregation famously showed how high levels of residential segregation can emerge as unintended outcome of the interplay of individual relocations of actors who hold relatively mild ethnic preferences. Most of the work building on this model neglected two forms of heterogeneity which seem to become increasingly important empirically in contemporary societies. First, there is considerable heterogeneity of residential preferences not only between but also within ethnic groups, with especially younger, higher educated and more wealthy individuals having less strong preferences for ethnic homophily. Second, most of the research following Schelling focuses on ethnic similarity as relevant to residential preferences. However, recent theoretical and empirical research on spatial sorting emphasizes multidimensionality, as individuals prefer similar others not only regarding ethnicity, but also for social distinctions as shared values or shared status. Extending recent work (Paolillo et Lorenz, 2018), we explore the interplay of heterogeneity in both forms of homophily preferences for ethnicity and shared values. Using a discrete choice version of Schelling model, in which agents differ in their relative weights for ethnic and value similarity in relocation moves, we explore the consequences of different preferences of agents and their strengths, in addition to structural conditions of relative group sizes of ethnic and value groups. We find in particular that hybrid segregation patterns can emerge in which ethnically mixed but value homogeneous neighborhoods arise alongside ethnically segregated neighborhoods populated by agents driven more by ethnic homophily. Importantly and contrary to Schelling’s model, we show how partial ethnic mixing can arise even if everyone has a preference for more co-ethnics in her neighborhood, all other things being equal.

Introduction

Ethnic or racial residential segregation appears still a critical topic of multi-ethnic cities all over the world (?). Many possible and interconnected explanations for segregation have been proposed, such as discrimination by landlords (?), the sorting mechanisms built into housing markets (?), or income inequality in combination with features of urban geography (?). Prominently, ~~Schelling??~~’s contribution was to demonstrate ~~(??)~~ with a formal computational model that segregation can be a self-organizing phenomenon ~~(unorganized segregation)~~ that emerges from the interaction of people satisfying their “discriminatory individual choice” ~~(?, p. 488)~~ ~~(?, p. 488)~~ within spatial limited constraints¹. Essential to Schelling’s model, and focus of this paper, is the concept of “preference dynamics” (?), i.e. the empirically plausible assumption that people typically want at least a certain minimal fraction of co-ethnics nearby, even if they are content with living in a mixed neighborhood. One key insight from a large

¹Essentially the same mechanism proposed by Schelling was independently developed and formalized earlier by ?, see ?

number of formal modelling studies is the robustness of the main results of the model (?), also if people hold “integrationist” preferences (?) or randomness is included in residential choices of agents (???). The robustness of segregation due to individual preferences persists also when ~~they are combined with additional parameters as housing pricing~~ additional parameters are taken into account such as relocation costs and income differences (?), relative group sizes (?) or empirically realistic spatial structures of real cities (?).

Yet, despite the strong theoretical and empirical evidence that preference dynamics might suffice to generate robust and high levels of ethnic segregation, recent trends in residential segregation suggest a somewhat different and more complex picture from the ~~premises of Schelling’s original model. As regards one that can be derived by the results of Schelling model.~~ For what concerns ethnic segregation, not only do U.S. studies point to declining levels in recent decades (e.g. ?), compared to the 60’s/70’s urban landscape (?) Schelling referred to (?), but also mixed neighborhoods increasingly start to arise in multi-ethnic cities (?). This pattern is also reflected in studies from Europe (?). ~~In addition to deeply variegated society (?)~~ This scenario can be due to two reasons. Firstly, urban societies are nowadays more racially diverse compared to decades ago (?). Second, it has been suggested that this pattern can be attributed to changes in residential preferences and how they vary within the population. Goldman (2012) ~~Rocco: never found this ref, can you pass?~~, for example, finds evidence of reduced racial prejudice in the society as a whole, a trend that seems to extend to residential ethnic preferences (?). Furthermore, residential preferences can vary ~~according to~~ depending on socio-demographic characteristics of individuals. On the whole, it appears that younger (??), more highly educated and higher income citizens have increasingly more tolerant ethnic preferences (????) when it comes to residential choice. A common trait of modern societies is that these socio-demographic characteristics and the social preference associated ~~are differently distributed both within (??) and between~~ might vary not only between members of different ethnic groups (??), but also between members of the same ethnic group (??). Thus, differently from Schelling, it becomes a both theoretically and empirically plausible scenario that the members of the same ethnic group experience a different degree of integration or segregation along diverse dimensions in addition to ethnicity ~~Andreas: not correct if you consider the bounded neighborhood model.~~ In this paper, we are interested in this aspect we refer to as “hybrid segregation” and we ~~aim at modeling~~ propose possible scenarios of how it can come to be.

Formal models of Schelling-type ~~preferences~~ dynamics have recently started to incorporate the insight that individuals differ in the degree of tolerance to local ethnic diversity. These models imposed heterogeneity in the desired neighborhood proportion of co-ethnics (??). Interestingly, these studies found that - similar to empirical patterns observed in modern multi-ethnic cities - preference dynamics could give rise to a division between ethnically mixed and segregated neighborhoods co-existing in the same city, together with a selection of more tolerant agents into the mixed neighborhoods. However, there is another important form of preference heterogeneity these models have not taken into account and which could profoundly affect dynamics of segregation. Shared values, defined as common beliefs, preferences or expectations on acceptable behavior induce perceptions of similarity across the boundaries of ethnicity (??). In modern societies where individuals differ along many and different social distinctions (?), shared values can become even more important than ethnicity itself. Recent empirical studies, indeed, suggest that a preference for value-similar neighbors may sometimes even dominate preferences for ethnic similarity. For instance, ~~show find~~ how similarity with neighbors in terms of sociocultural dispositions (i.e. gender balance in household tenure in their case traditional or modern arrangements of gender contribution to household income, plus education) is a better predictor ~~to leave~~ of the intention to remain in the neighborhood, compared to ethnic membership and income similarity. In a similar vein, research on homophily in social networks recently has moved forward to recognize the importance of multidimensional similarity for the formation of social relationships (??). This research shows that dissimilarity in ethnicity might not negatively affect the formation of relationships when compensated for by salient similarities individuals perceive in other categories.

While recent empirical studies seem to adopt the interplay of ethnicity with other social distinctions to explain hybrid segregation in diverse societies, this seems rarely the case in modeling literature drawing on Schelling’s framework. Yet, we argue that this work points to an intriguing new possibility for residential segregation dynamics and hybrid segregation scenarios. The seemingly unstoppable march towards segregation that Schelling-type preference dynamics induce may not only be stopped by higher levels of ethnic tolerance, as suggested by ? or ?. It may also be stopped in a world where individuals still prefer being among co-ethnics, but at the same time hold an even stronger preference for having neighbors with similar values who also happen to be members of other ethnic groups. Given that ~~such a predominance of value-orientation~~ stronger preference for shared social distinctions in residential preferences rather than ethnicity appears to some extent to be correlated with socio-characteristics as education, income or age,

this possibility would offer a new explanation in the framework of Schelling-type ~~preference dynamics~~ of dynamics for nowadays residential trends. Rocco: just to break the sentence too long An example is why well-off younger generations appear to increasingly move to more affluent and more ethnically mixed neighborhoods (??). It would also help to understand why low-income strata seem to become increasingly segregated through generations, meaning that their neighborhoods become progressively both ethnically and economically segregated (?).

In this paper, we propose a formal computational model of Schelling-type preference dynamics that incorporates the interplay of both ethnic and value similarity for neighborhood composition. Our study builds on and advances recent modelling work of ? which, to best of our knowledge, first introduced value similarity within a Schelling-type threshold model. In their model, two ethnic groups relocated in a lattice, each ethnic group being equally divided into intolerant ethnicity-oriented agents and tolerant value-oriented agents. While intolerant agents subscribed to the original Schelling ~~'s~~ model considering ethnic similarity and ignoring value similarity, tolerant agents only considered value similarity, indifferent to the ethnicity of other agents. The authors explored the consequences of different desired concentrations of agents considered as similar and for conditions of different relative ethnic sizes. Their results showed a general decrease in ethnic segregation compared to a world populated only by agents with ethnic preference. But they also showed more complex patterns, especially a by-product effect for ethnicity-oriented agents ~~in the minority condition belonging to minority group~~ who found attractive ethnically mixed neighborhoods formed by ~~tolerant~~ value-oriented agents, due to higher chance to find co-ethnics. In-flows of intolerant ~~co-ethnics~~ ~~minority~~ caused such neighborhoods to decrease in value segregation and increase ethnic homogeneity. The authors observed until ~~what threshold value-oriented agents of both ethnic groups would when tolerant agents would not~~ tolerate the increasing concentration of ~~ethnicity-oriented agents and then leave conservatives~~, so to ~~increase the likelihood of that neighborhood to become more ethnically and value homogeneous, with concentration of conservative co-ethnics. leave the neighborhood, which would become eventually ethnically concentrated, due to presence of conservative minority.~~ Andreas: generally a bit lengthy here, could be moved to separate theory section. Rocco: now shortened and rephrase, checking

We want to build on the ~~potential contribution~~ of ? to reproduce hybrid segregation patterns through multidimensional homophily. To this aim, we ameliorate some unrealistic assumptions of their model and extend other features. Andreas: highlight more the contribution of this paper, we make the model more amenable to empirical research. First, we relax the assumption that agents can only hold preference for value or ethnic homogeneity: we rather allow residential choice to be driven by a mix of both and focus on the heterogeneity of agents' preferences for the two types of similarity Rocco: redefine "heterogeneity": it is not referred to distribution of preference within population. Second, we implement a random utility model for discrete choice, following recent advances in agent-based modelling of residential mobility (??), substituting threshold behavior with a linear utility function. This approach let us better model the decisional process of agents ~~and~~. A linear utility function lets us model the sensitivity to change in neighborhood composition (?) ~~compared to a threshold behavior~~ Rocco: review: you can have a decisional process with threshold function: what is the usefulness of linear function over threshold. We systematically explore how the interaction of the two types of preference can generate hybrid segregation patterns, combining ethnically homogeneous and ethnically heterogeneous neighborhoods with segregation or integration for value similarity. ~~We further~~ ~~Moreover, we~~ explore how segregation patterns would change when not only ethnic relative size are taken into consideration as in ?, but also different ~~distribution~~ ~~distributions~~ of value types within agents' population.

Rocco: add: discrete choice and linear utility function to observe scenarios not possible in threshold and deterministic behavior, because agents would be not happy and some conditions not stand, e.g. threshold = 100 was not possible in ? Andreas: dont think we need this is intro. it s already on the long end, consider splitting into intro pro

~~Random utility models for discrete choice have a long history in housing research (?). and in recent years they have been applied in the agent-based modeling framework (??). Stemming from the utility maximization paradigm, these model assume that the decisional process underlying the choice of economic actors is unknown, and it can be deduced by observed preferences, i.e. how selection of respondents differ for attributes of the options available (?), e.g. different neighborhood composition. So, aim of regression models comparing choices of the sample is to estimate vector parameters that quantify the likelihood to select one option over the other depending on the difference in their attributes (?). Utility in this context is defined as the attractiveness for each characteristic the options differ for and it is based on the response curve of the respondent (??) imposed based on the theoretical model of the analyst. Nevertheless, random utility models divide between a systematic component of utility, i.e. observable differences between options based on their utility, and a random term, representing all unknown factors associated with selection of that options, might they depend on other characteristics of the option, characteristics of the selector or an interaction of both. Compared to our model, random utility for a~~

generic neighborhood is:

$$U = \beta_e U_e + \beta_v U_v + \epsilon$$

where:

β_e = weight parameter for ethnic similarity, with $\beta_e \in [0, \infty)$

U_e = ethnic utility of neighborhood

β_v = weight parameter for value similarity, with $\beta_v \in [0, \infty)$

U_v = value utility of neighborhood

ϵ = random term

While parameters β_e and β_v can be estimated through regression models, the random term ϵ remains unknown. The conditional logit model introduced by ? is a specific type of discrete choice model that allow to quantify the effect of systematic utility over random component, though remaining the latter unknown. Assuming the random term ϵ follows a type I extreme value distribution, e.g. Gumbel distribution, the probability to select neighborhood j out of options k in choice set C is:

$$P_{j \in C} = \frac{\exp(\beta_e U_j^e + \beta_v U_j^v)}{\sum_{k \in C} \exp(\beta_e U_k^e + \beta_v U_k^v)}$$

In this computation of probability, parameters β_e and β_v become the weight of how much the systematic component of utility for that dimension matters in the selection of the option compared to the random component represented by the unknown random term. The higher β_e or β_v , the higher the likelihood that the option with highest utility for that dimension will be selected, the lower β_e or β_v , the higher the chance that an option is selected randomly for that dimension. With both β_e and β_v equal 0, the all options have equal probability to be selected, since the choice is totally stochastic, i.e. dependent on random term.

Implementation of discrete choice in agent-based modelling has a number of peculiarities compared to empirical regression models. First and above all, estimated preferences in regression models depend on a the comparison of a limited set of observed cases that can profoundly affect results. Moreover, utility remains a random variable estimated through parameters β and computation of probability to select one option. Probability to select one option over the others as behavioral response to change in their attributes is the equivalent to utility. As (?) stress out, agent-based modeling are deeply different in this aspect, allowing to model independently and quantify the elements of the conditional logit based on a theoretical model. Researchers can impose different combinations of utility function for all ranges of neighborhood characteristics and parameters β in the relocation decisions of agents to observe their aggregated results. Additionally, modellers can include other elements that contribute to the dynamics of emerging spatial segregation, such as diverse heterogeneous distributions of preferences (see (?)) or population structures that can influence neighborhood composition (?).

Also agent-based modelling can benefit from the implementation of discrete choice models, not only for the formalization of the decisional process of agents and calibration with parameters β estimated (?), but also for the inclusion of the stochastic random term. Randomness is useful to both test robustness of observed phenomena in complex systems and increase their realism through inclusion of random fluctuations against deterministic behavior. A traditional way to include randomness in the dynamics of an agent-based model is as an external noise, for instance in Schelling's model, with a percentage of agents, or additional agents, forced to randomly relocate by the researcher. Implementation of discrete choice allows to include randomness as an endogenous component in the relocation decision of individual agents through the random term compared to parameters of determinism. Useful to our interest in the interplay of value and ethnic preferences, the parameter β can vary as a local variable of agents, so to sort out differences in the ratio between deterministic and random relocation depending on characteristics of agents. We build on this peculiarity of random utility models to test how random behavior of a specific type of agents for value orientation, ethnicity or a combination of both can influence the emergence of stable equilibria of hybrid segregation. We can moreover explore the interdependence between different types of agents and how determinism of agents would react to different distributions of the two characteristics of ethnicity and value orientation in the population. In the next section we describe our extension of ? and how we implemented random utility discrete choice.

Model Description

We developed our model in NetLogo 6.1.1 (?) extending ?.² The model and its parameters are shortly described in Tab: 1. Agents represent households who relocate in a regular square grid of dimension 51 times 51 with periodic boundary conditions, i.e. a torus world. As in ?, each agent is described by two ~~static~~ state variables: ethnicity modeled ~~through~~ through a color tag and value orientation modeled through a shape tag (see fig: 1). ~~Both dimensions have a twofold distinction: for ethnicity ethnic majority (color blue) or ethnic minority (color orange), while for value orientation conservative group (shape square) or liberal group (shape circle).~~ Given two levels for each dimension, 4 group-type of agents interacts. For sake of illustration we label them as conservative majority (blue square), liberal majority (blue circle), conservative minority (orange square), liberal minority (orange circle). Value orientation of agents represent shared beliefs or opinions that people can share independently of their ethnic membership and that can rather correlate with other social distinctions, such as education, social class or political views.

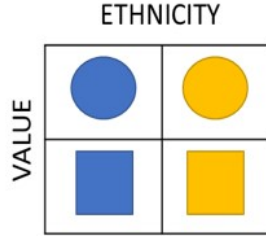


Figure 1: Group-type of agents

In our model value orientation of agents is relevant for two reasons. First, it determines an additional dimension of similarity which is independent of ethnicity: liberals can recognize as similar value-oriented also liberals of the other ethnic group, so as to recognize of different value orientation conservatives of both ethnic groups³. Additionally, value orientation matters in defining the strength of ethnic or value similarity in the relocation decision of agents. In ? agents randomly relocated to an empty ~~node~~ cell according to a threshold function, based on ethnic composition for ethnicity-oriented agents and value composition for value-oriented agents. We substitute this behavior with a binary random utility discrete choice model. At each time step, a random agent selects a random empty ~~node~~ cell and compares its neighborhood composition to that of its current ~~node~~ cell. By neighborhood ~~of the agent~~ we refer to the Moore ~~neighborhood of distance with~~ radius 1 of the ~~agent selected; similarly, the alternative neighborhood is the Moore neighborhood of radius 1 of an empty cell.~~ We substitute the threshold function in ? with a continuous linear function for both ethnic and value neighborhood composition cell, i.e. 8 surrounding nodes. Ethnic utility and value utility for the neighborhood composition is modeled through a linear function:

$$U_j^e = \frac{x_j^e}{X_j} \quad ; \quad U_j^v = \frac{x_j^v}{X_j} \quad (1)$$

where:

- U_j^e : ethnic utility of neighborhood j
- x_j^e : number of agents in neighborhood j with same ethnicity
- X_j : total number agents in neighborhood j
- U_j^v : value utility of neighborhood j
- x_j^v : number of agents in neighborhood j with same value
- X_j : total number agents in neighborhood j

Both utilities can range [0,1]. Utility of a neighborhood is set to 0 if $X_j = 0$, i.e. not agents are in the neighborhood. The probability for an agent to choose the alternative neighborhood over the current one is modeled with a logistic function as:

$$P_{al} = \frac{\exp(\beta_e U_{al}^e + \beta_v U_{al}^v)}{1 + \exp((\beta_e U_{cr}^e + \beta_v U_{cr}^v) - (\beta_e U_{al}^e + \beta_v U_{al}^v))} \quad (2)$$

²Model available at https://github.com/RoccoPaolillo/ethnic_value_rum.git

³Equally, also conservatives recognize similar value-oriented conservatives of both ethnic groups

where:

β_e : weight for ethnic preference

β_v : weight for value preference

U_{al}^e : ethnic utility of alternative neighborhood

U_{cr}^e : ethnic utility of current neighborhood

U_{al}^v : value utility of alternative neighborhood

U_{cr}^v : value utility of current neighborhood

Andreas: this can be integrated more with equation 2 and text around it.

The higher β_e or β_v , the higher the option with higher ethnic or value utility is likely to be selected, the lower β_e or β_v , the higher the chance that selection is random for that dimension. With both $\beta_e = 0$ and $\beta_v = 0$, the choice is totally random and $P_{al} = P_{cr} = 0.5$. ~~This formula is a transformation of Eq: ?? for a binary choice with probability to relocate to alternative neighborhood⁴. Probability computed is compared to a random number ranging between 0 and 1. If probability is higher than random number, then the agent moves to the alternative neighborhood, leaving its cell empty. So, the logistic function serves as a simplified version of the roulette wheel selection⁵.~~

~~We opted for a binary choice to ease computational power required. As tested, due to iterations of the model results would not change with selection between more options. We opted for a continuous linear function because default assumption in utility maximization and sensitive to changes in neighborhood compositions, which is strategic to our aim (?). Moreover, it lets behavior of agents differ only for parameters of determinism β_e and β_v , so to allow us to disentangle the effect of either ethnic or value similarity preferences on emerging segregation.~~

~~Rocco: next paragraph: I mean that potentially one can span the parameters so to have ethnic liberal > ethnic conservative. W~~

Andreas: here (next paragraph rp) we say what we do, but not really why we do it. this has also not been said very clearly fur

We vary β_e and β_v depending on the value orientation of agents and in our experiments impose differences in heterogeneous preferences between the two types of agents. Liberal agents, considered as more prone to ethnic tolerance, hold higher value preferences: weight for ethnic similarity cannot exceed their weight for value similarity ($\beta_e^o \geq \beta_e^o \beta_v^L > \beta_e^L$). Conservative agents hold higher ethnic preferences: weight for value similarity cannot exceed their weight for ethnic similarity ($\beta_e^o \geq \beta_v^o \beta_e^C > \beta_v^C$). Moreover, the heterogeneity between conservative and liberal agents exists so that ethnic preferences of liberals do not exceed those of conservatives ($\beta_e^o \geq \beta_e^o \beta_e^C > \beta_e^L$), and value preferences of conservatives do not exceed those of liberals ($\beta_v^o \geq \beta_v^o \beta_v^L > \beta_v^C$).

~~As outcome of the model, we report the index of exposure for both ethnic and value segregation of agents who have at least one neighbor. This is the classic measure of segregation in Schelling and is equivalent to the fraction of agents of same ethnicity or value orientation in the neighborhood, indifferent to the actual number of neighbors. Nevertheless, we consider this a best fir to our interest in hybrid segregation scenarios. Since the measure is collected for all agents who have at least one neighbor, an index equal 0 means assimilation of the agent for that dimension, i.e. exposed only to agents of different ethnicity or value orientation. An index equal to 0.5 means that the agent is perfectly integrated for that dimension, being exposed to agents of different ethnicity or value orientation. An index equal 1 means total segregation, i.e. exposure only to similar agents for that dimension. Thus, the 2 indexes can be easily compared to visualize if agents are assimilated, integrated or segregated for one dimension and differently for the other.~~

⁴The ~~equivalence between~~ logistic function and is equivalent to the conditional logit formula $P_{al} = \frac{\exp(U_{al})}{\exp(U_{al}) + \exp(U_{cr})}$ for two options. The equivalence is valid since the difference between two random terms that are assumed to have a Gumbel ~~distributions~~ distribution, as in the conditional logit, has a logistic distribution. ~~The See (?, p.39) for details on transformation from conditional logit formula to logistic function in Eq: 2 is transformation of Eq: ?? written as $P_{al} = \frac{\exp(U_{al})}{\exp(U_{al}) + \exp(U_{cr})}$, resulting from division of numerator and denominator by numerator $\exp(U_{al})$, with $\exp(U_{cr})/\exp(U_{al}) = \exp(U_{cr} - U_{al})$ (see (?, p.39) for details) implemented in our model~~

⁵see ? for an example of roulette wheel selection

Agent definition	RangeTag
Ethnicity (<i>color</i>)	Blue (majority), Orange (minority)
Value orientation (<i>shape</i>)	Square (conservative <i>C</i>), Circle (liberal <i>L</i>)
<u>Group-type level Parameters</u>	<u>Range</u>
Determinism ethnic utility (β_e)	$[0, \inf) \beta_e^\square \geq \beta_v^\square$; $\beta_e^\square \geq \beta_e^\circ$ $\beta_e^C > \beta_v^C$; $\beta_e^C > \beta_v^L$
Determinism value utility (β_v)	$[0, \inf) \beta_v^\circ \geq \beta_e^\circ$; $\beta_v^\circ \geq \beta_v^\square$ $\beta_v^L > \beta_e^L$; $\beta_v^L > \beta_v^C$
Global Parameters	Range
Population density	$[0, 0.99]$
Ethnic ratio majority/minority	$[0, 1]$
Value ratio conservative/liberal majority	$[0, 1]$
Value ratio conservative/liberal minority	$[0, 1]$
Output measure	Range
Ethnic neighborhood exposure	$[0, 1]$
Value neighborhood exposure	$[0, 1]$

Table 1: Model parameters

Results

Baseline Conditions

We run our simulations for 1000 discrete time steps and ~~run~~ repeated each condition 20 times. We collected data for the last time step as interested in the emerged equilibria resulting from relocation preferences, population composition and degree of determinism.

In this first section, we report results for symmetric conditions ~~so to understand the key~~, where agents are equally distributed in each group-type. This is the simplest scenario to investigate mechanisms of the model deriving from changes in the strength of ethnic and value preferences. At initialization, each agent has 50% probability to be assigned to either majority or minority ethnic group (equal ethnic size) and within each ethnic group, 50% probability to be assigned to either conservative or liberal value orientation. In short, each group-type represents 25% of the population. Density of the ~~grid inhabited population~~, i.e. the percentage of cells on the grid occupied by agents is kept at 70% with initial random distribution. Fig. 2 shows the parameter space we explore in this baseline scenario ~~and the~~ generated by the two parameters of determinism of dominant and secondary preference of agents, with figures associated ~~Rocco: figures-experiment match to be updated in the end~~. Dominant preference of conservative agents is ethnic similarity, while secondary preference is value similarity. Dominant preference of liberal agents is value similarity, while secondary preference is ethnic similarity. The aim of the figure is also to show visually the segregation scenarios that emerge within the parameter space and that we plot in each figure. We describe later each picture and motivation in details. ~~Rocco: including more description of space model Fig. 2, for matching figures, in the end~~ The origin of the axes equals to all agents holding $\beta = 0$, i.e. extreme randomness, for both dominant and secondary preference in their relocation decision, so to relocate randomly from the initial distribution and generate no segregation. Moving along the diagonal, dominant preference of agents is equal to secondary preference (Fig.3), showing clustering between the 4 group-type as determinism increases. Fig. 6 occurs along the diagonal as well, but with either liberals or conservatives in each condition holding β dominant equal to β secondary. Moving along the vertical axis (β dominant), all agents hold only dominant preference in their relocation decision, not taking into account their secondary preference (β secondary = 0) ~~Rocco: by-product~~ (Fig. 4). The result is the division of society in three clusters: liberals ethnically integrated and value segregated, and two clusters each formed by conservatives of one ethnic group. In the same region Fig. 5 occurs, but with liberals and conservatives holding different levels of β dominant. Finally, moving along the horizontal axis, all agents hold constant level of β dominant and increase secondary preference. Fig. 7 explores this region, though under the assumption of β dominant $<$ β secondary.

As measure of segregation, for both ethnic and value similarity, we compute an index of exposure in the Moore neighborhood of agents who have at least one neighbor. The index reports on average the fraction of other agents of same ethnicity or same value orientation in the local neighborhood of each agent. It ranges between 0, i.e. exposure to out-groups to 1, i.e. full segregation, with 0.5 equal to

integration between the two groups. We report the index for ethnic exposure (E_i) and value exposure (V_i) for each group-type:

$$E_i = \frac{x_i^e}{X_i} \quad ; \quad V_i = \frac{x_i^v}{X_i} \quad (3)$$

where: \times

x_i^v : number of other co-value agents in the Moore neighborhood of agent i

x_i^e : number of other co-ethnic agents in the Moore neighborhood of agent i

X_i : total number agents in neighborhood of agent i

We report additionally the average density of the neighborhood agents form, calculated as the fraction of inhabited grid cells in the Moore neighborhood of agents. We are interested in density as indicator of clustering of agents and how it relates to segregation patterns.

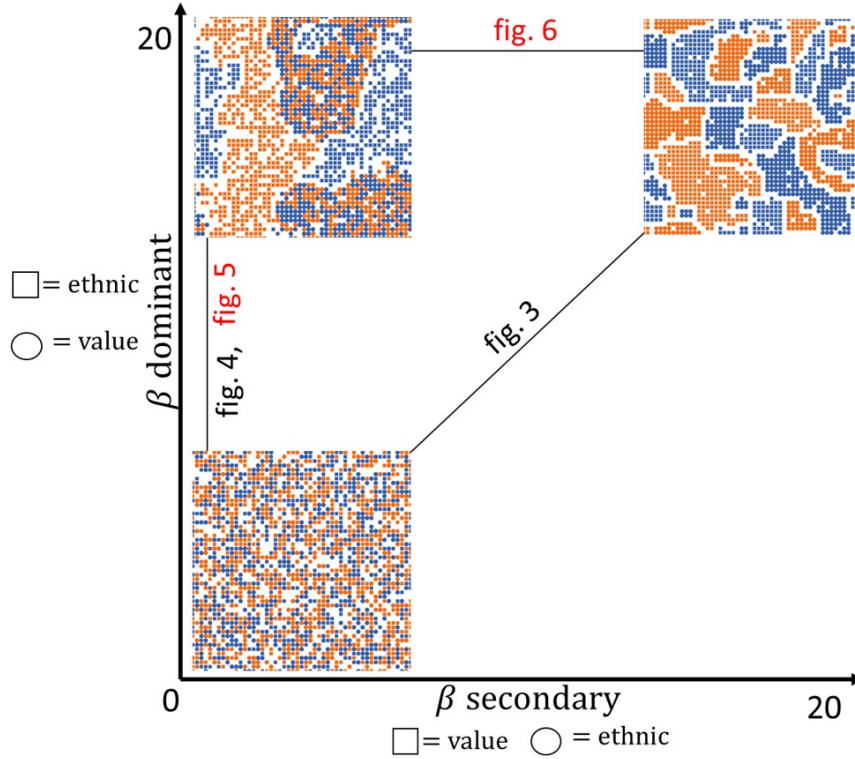


Figure 2: Preference model space parameter and figure associated. Figure reference label: black color means liberals and conservatives hold same level of β parameter (though with different definition of similarity). Red color means they hold different level of either dominant or secondary preference. Match figure-label to check/change in the end

Fig. 3 represents the baseline condition we compare results to. Agents hold same preference for both ethnic and value segregation, i.e. they want to live close to agents of the same group-type. On the x-axis, agents of both value-orientation increase their determinism (parameter β). The graph shows how ethnic and value segregation follow the same curve. Segregation increases monotonically from $\beta = 0$ until $\beta = 7$ where full segregation is reached. Density of neighborhoods remains basically unaltered from initial random distribution, though slight increase when full segregation emerges at $\beta = 7$. Results mean that the size of neighborhoods of agents is unaffected by increase of determinism, while their composition changes.

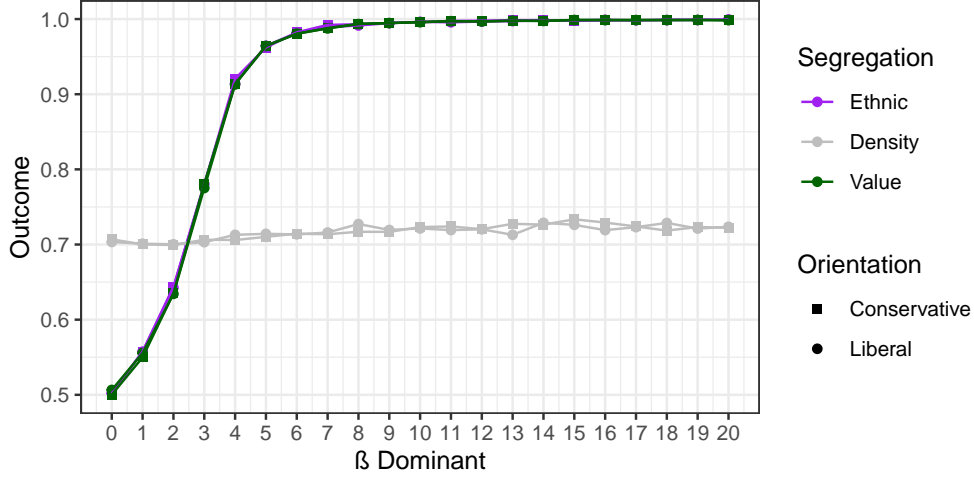


Figure 3: Baseline condition. Each group-type represents 25% of population. β dominant = β secondary

In Fig. 4, we investigate the scenario where agents hold only to their dominant preference. Differently from previous condition where agents would prefer someone with own identical characteristics, liberals would relocate close to other liberals of different ethnic group, as well as conservative try to maximize on ethnic utility with liberal co-ethnics. This is ideal to investigate effects of different preferences. For each type of agent, β dominant increases on the x-axis, while β secondary = 0. The figure shows how liberal agents remain ethnically integrated, which is coherent with their random relocation for ethnic dimension of neighborhoods (secondary preference $\beta_e = 0$) with almost full value segregation. For conservative agents, ethnic segregation is higher than value segregation of their value counterpart, with full ethnic segregation reached with highest determinism. What is unexpected is that also value segregation emerges with increase in determinism, while their value preference is imposed to $\beta_v = 0$.

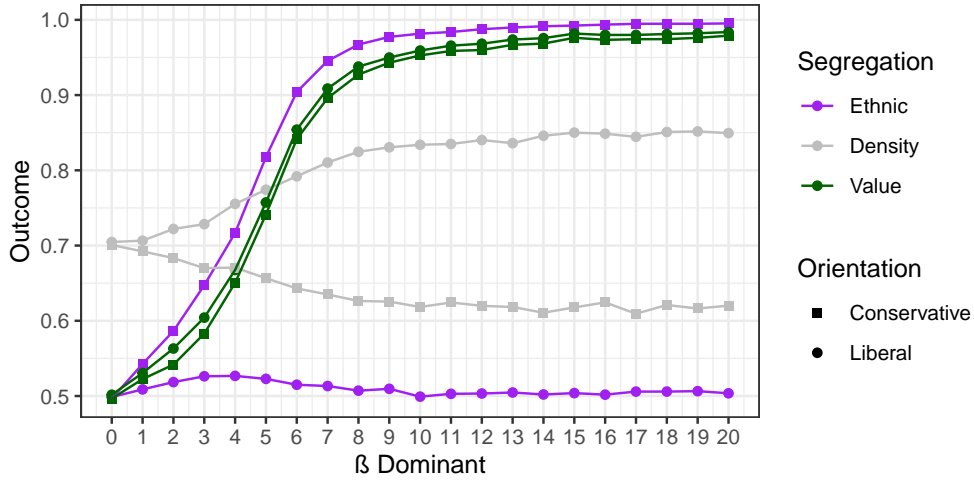


Figure 4: Baseline condition, β dominant preference (ethnic for conservative, value for liberals on the x-axis), β secondary preference (value conservative, ethnic liberal) equal to 0

Value segregation of conservatives occurs as a by-product effect of value preference of liberals, due to the different definition of similarity in spatial sorting. Due to symmetric condition, both conservatives and liberals could potentially consider half of the population as similar to maximize homophily preferences (population equally split into two ethnic groups and two value orientations). However, though conservatives would relocate close to liberal co-ethnics, they would be rejected by the latter who would prefer a neighborhood with other liberals, while both conservatives and liberals of the other ethnic group would be

rejected based on the own ethnic preference. In short, conservatives of each ethnic group can only count on other conservatives of their own ethnicity to form stable neighborhood, equal to 25% of the population. On the other side, liberals would relocate close to co-values of both their own and the other ethnic group, so to count on 50% of the population to maximize value utility, i.e. the double of percentage available to conservatives. The result is that liberals form denser neighborhoods compared to conservatives, because they have more similar agents to relocate close to. Looking at Fig. 4, as determinism increases, density of neighborhood of liberals increases from the initial distribution, while conservatives' falls below it. By-product occurs because liberals, avoiding conservatives of both ethnic groups and forming denser neighborhood, reduces the space available on the grid where conservatives of both groups can relocate, so to break also their neighborhoods. Additionally, conservatives would sort with conservatives of their own ethnic group.

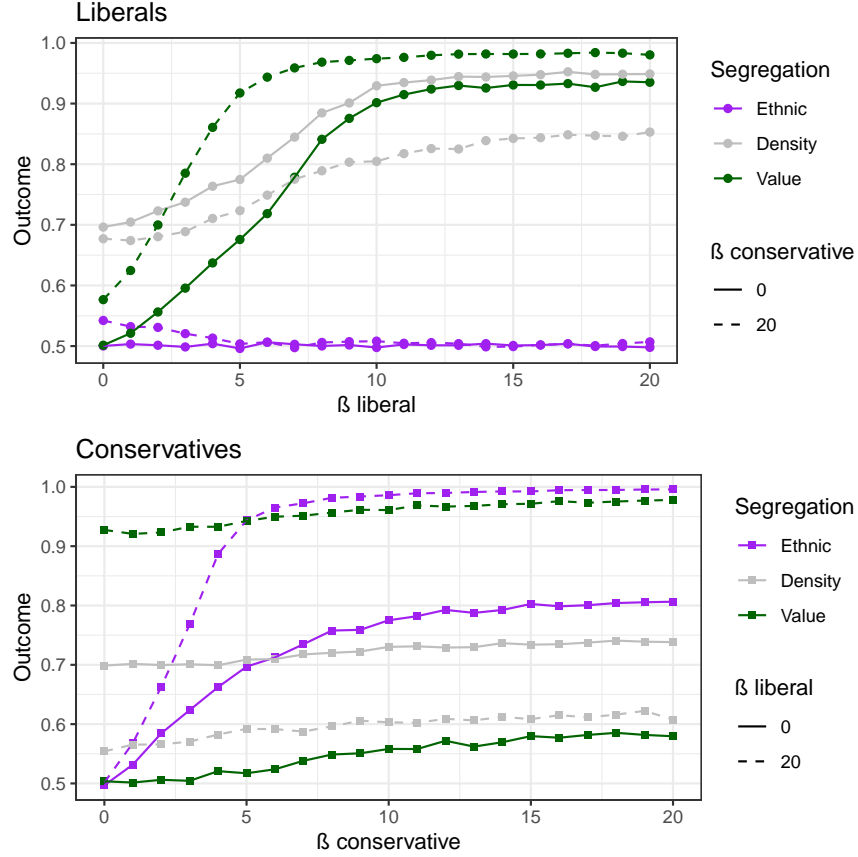


Figure 5: Baseline condition, for each value-orientation type, how its patterns are influenced by determinism of the other group. Secondary preference in each condition is equal to 0. Top panel liberals: β value liberals on x-axis, linetype: β ethnic conservative equal 0 or 20; Bottom panel: β ethnic conservative on x-axis, linetype: β value liberal.

Fig. 5 clarifies how the segregation patterns of each group-type liberals and conservative depends on their dominant preference or it is influenced by preferences of other group-type as by-product. On top panel, results for liberals are reported. On x-axis, liberals increase determinism β value in their relocations, linetype shows the conditions due to behavior of conservatives: total random relocation $\beta = 0$, or extreme determinism $\beta = 20$. The picture shows how the density of neighborhoods liberals form increases with increase of β value, though it shows lower levels when conservatives hold max β ethnic, compared to Fig. 4. While ethnic integration is unaltered by ethnic preference of conservatives, as no difference is evident. On the contrary, value segregation seems higher when conservative cluster together until β conservative = 20. Likely with $\beta = 0$ they would randomly relocate into neighborhoods of liberals, thus to decrease their value utility. The difference is higher for lower determinism area. The bottom panel repeats for

conservative agents influenced by behavior of liberals. With β liberal = 0, a slight increase emerges for higher determinism of conservatives, i.e. they can cluster only with other conservatives of their ethnic group, and taking advantage of liberal co-ethnics who randomly relocate. With β value liberals = 20, the by-product is evident and strong: value segregation basically does not increase for all levels of β ethnic conservative and remains high. In short, the value segregation of conservatives is very minimally due to clustering due to ethnic preference. Neighborhood density remains equal to initial distribution with β value liberal = 0, meaning conservatives do not form denser neighborhoods as liberals, which can be related to have lower ethnic segregation compared to value segregation of liberals when conservative hold β ethnic = 0. Neighborhood density decreases and remains constant when β value liberals = 20, being their space in the grid limited by neighborhoods formed by liberals and forming conservatives less dense neighborhoods. However, though neighborhoods are less dense, the ethnic exposure for conservatives reaches full segregation.

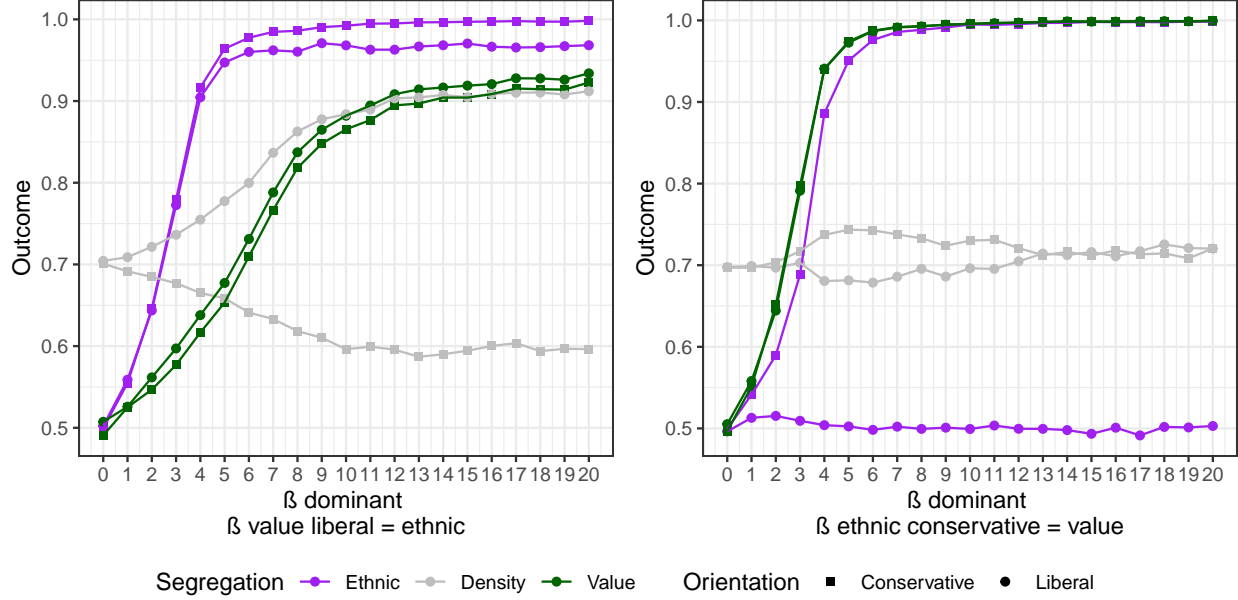


Figure 6: Baseline condition, Effect of agents holding β dominant = β secondary, comparison of different preferences. On the x-axis, increase β dominant for all agent. Left panel: liberals hold value preference (dominant) equal to ethnic preference (secondary); left panel: conservatives subscribe only to ethnic preference. Right panel: liberals hold ethnic preference (dominant) equal to value preference (secondary)

Fig. 6 repeats Fig. 4 but with the difference that conservatives and liberals hold secondary preference equal to dominant preference. The aim is to compare with Fig. 3 and Fig. 4: how they would change if also secondary preferences are taken into consideration, and allow to observe how degree of determinism influences the process. This was the best solution to include all into feasible picture so far. Lower value segregation of conservatives as by-product, as they are more accepted by liberals and shift in density neighborhood of conservatives. To think about.

Heatmap in Fig. 7 shows instead other combinations that would not be included in Fig. 6: e.g. fix one level of determinism β value and increase β ethnic of liberals. However, all agents hold same degree of determinism, which obscures whether agents cluster because of increase in secondary preference, or because of by-product e.g. for areas of high determinism.

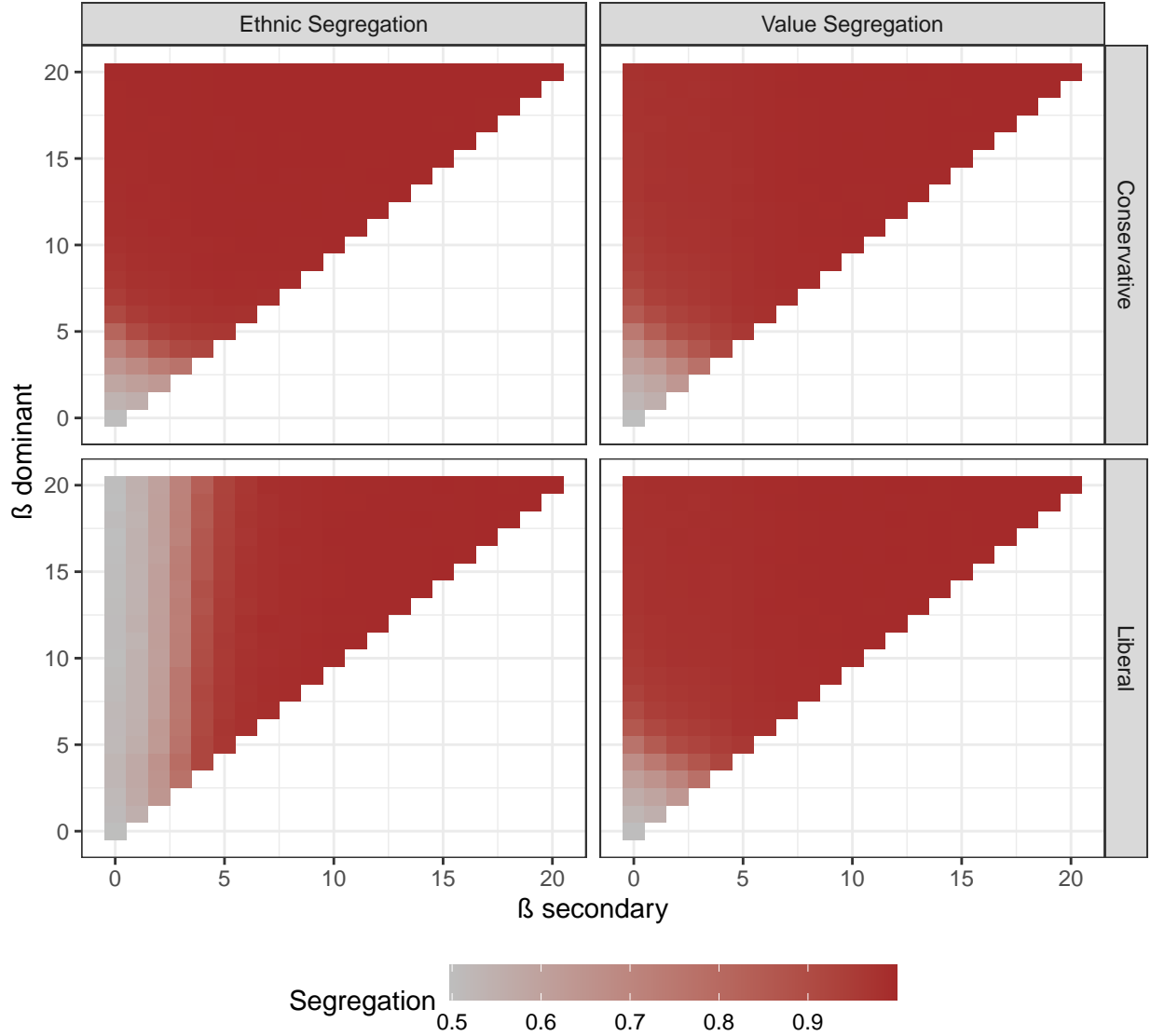


Figure 7: Basic condition. Heatmap generated by β dominant preference (ethnic for conservative, value for liberals) and secondary preference (value for conservatives, ethnic for liberals). Liberals and conservatives hold same level of β dominant and β secondary in each condition (global parameter)

Asymmetric Conditions

The main focus is on scenario with secondary $\beta = 0$ (Fig: 4), since it shows most interesting results as by-product. In this section we want to show how segregation scenarios that in the previous section depended on different homophily preferences can vary if agents hold similar preferences but distribution in population composition differ (e.g. majority influences more than minority, *ceteris paribus*). The main focus for simplicity is on preference of liberals majority vs liberals minority, since they enact mechanisms as by-product and represent new introduction to Schelling's model (see figures in details). So also for increase of secondary β For simplicity of visualization and to focus on preferences of agents, 80% ethnic ratio is considered in the experiments. For value orientation, as in the asymmetric condition, each ethnic group equally split into liberals and conservatives (i.e. 50% of population is liberal, and 50% conservative, but more chance of both conservative and liberal to belong to ethnic majority). Fig:12 and Fig: 13 are to show how results would change in the full conditions due to joint distribution ethnic ratio and distribution

of liberals which affect population composition. In particular distribution of liberals is of interest because it allows to break the ethnic unbalance between liberal majority and minority, how conservatives of both groups react to increase of liberals in the population, and how effective change in the minority population would be, if an ethnic critical mass is not reached. Basically in all conditions majority remains split 50% into liberals and conservatives, but both changes in minority population are more interesting to relate to change into the integration/segregation continuum.

In ethnic asymmetric conditions, we use the spatial relocation index to measure whether segregation occurs from initial random distribution. Local exposure can be computed from it, but it is not intuitive to reader in my view. In the tables in appendix, the reader can see for each condition what local exposure matches spatial clustering of agents.

$$E_i^c = \frac{(x_i^e/X_i)}{(N_i^e/N)} \quad ; \quad V_i^c = \frac{(x_i^v/X_i)}{(N_i^v/N)} \quad (4)$$

where:

x_i^e : number of co-ethnics neighbors of agent i

x_i^v : number of co-values neighbors of agent i

X_i : number of neighbors of agent i

N_i^e : number of agents in the population with same ethnicity of agent i

N_i^v : number of agents in the population with same value of agent i

N : total number of agents in the population

Fig: 8 wants to inform the reader of what is the direct effect of different ethnic ratio and how spatial clustering relates to local exposure. It replicates Fig: 4 comparing the condition of ethnic equal size (50%) vs majority/minority condition used in this section (80%). Results show given the same ethnic preference, conservative minority have higher need to cluster to satisfy ethnic utility, resulting in higher spatial clustering, 5 times the initial random distribution, with increase of local ethnic exposure to 1 (0.2*5). While for conservative majority, similar full ethnic exposure is reached with lower spatial clustering, since there is more chance to find co-ethnics in the population. For both liberals majority and liberals minority full value segregation is reached with value spatial clustering equal 2, i.e. full local value exposure equal 1. Ethnic segregation does not occur in terms of spatial clustering from initial distribution for both liberals majority and liberals minority, meaning higher ethnic exposure of liberals majority to 80% and ethnic assimilation for liberals minority 20%

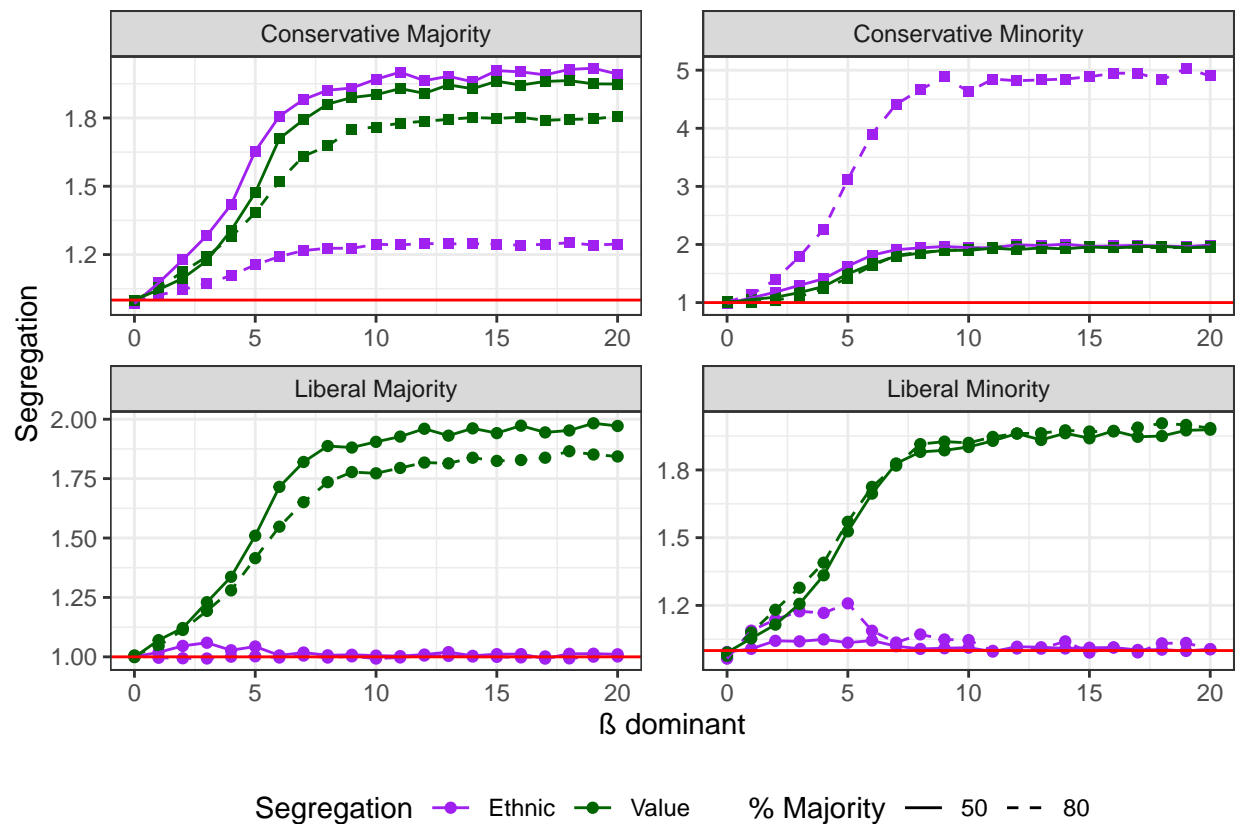


Figure 8: Baseline ethnic asymmetric condition. Each panel reports the segregation pattern of each group-type (ethnicityXvalue). X-axis: β dominant (ethnic for conservative, value for liberals), Y-axis: dislocation index. Agents hold only dominant preference: β secondary = 0. Linetype: comparison equal ethnic size (50 %) vs majority/minority condition (80%).

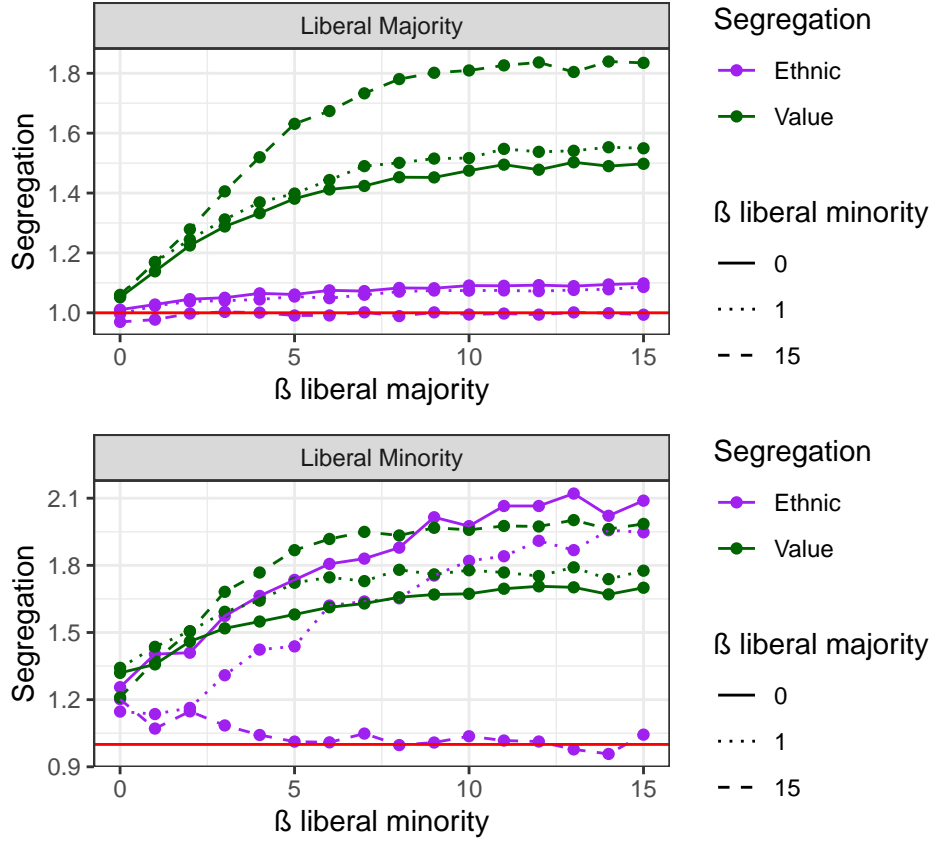


Figure 9: Ethnic asymmetric: effect dominant preference (β value) liberals minority over liberals majority (top panel) vs effect liberals majority over liberals minority (bottom panel). For each panel, on x-axis increase β value preference of group-type, linetype: β value preference of out-group counterpart. Conservative agents hold to dominant ethnic preference $\beta = 15$. Secondary preference for both conservative and liberals = 0

Fig: 9 first explores how liberals majority and minority influence each other, basically to explore whether ethnic integration at local exposure can be reached as due to different value preferences of either group, or ethnic assimilation of minority and value segregation of both in Fig: 8 would be affected. Each panel shows results of liberals majority (top) and liberals minority (bottom). For each graph, results show changes due to ethnic counterpart having no preference at all ($\beta = 0$), low value determinism ($\beta = 1$) or high value determinism ($\beta = 15$). In all conditions, conservatives of both ethnic groups hold β ethnic = 15, so to have stable ethnic segregation pattern from their behavior.

Liberals majority are lower affected by value preference of liberals minority for what concerns ethnic segregation. Basically if the other group doesn't care about value homophily, the agents can relocate only close to liberal co-ethnics. For liberals majority not much change in spatial clustering occurs because of majority condition, while for liberal minority the same condition leads from ethnic assimilation to ethnic segregation, though ethnic preference is not involved. Even a small amount of determinism of liberals majority is enough to increase value segregation of liberals minority (see bottom panel with β liberal minority equal 0). However, in top panel, higher value segregation is reached by liberals majority for higher determinism if liberal minority hold high β value = 15

I included $\beta = 0$ of ethnic counterpart as theoretical baseline: what happens if there no preference at all in the ethnic counterpart. Methodologically is correct to include in my view, though difference with $\beta=1$ is not that striking. We could think of cutting off if the figure is too complicated.

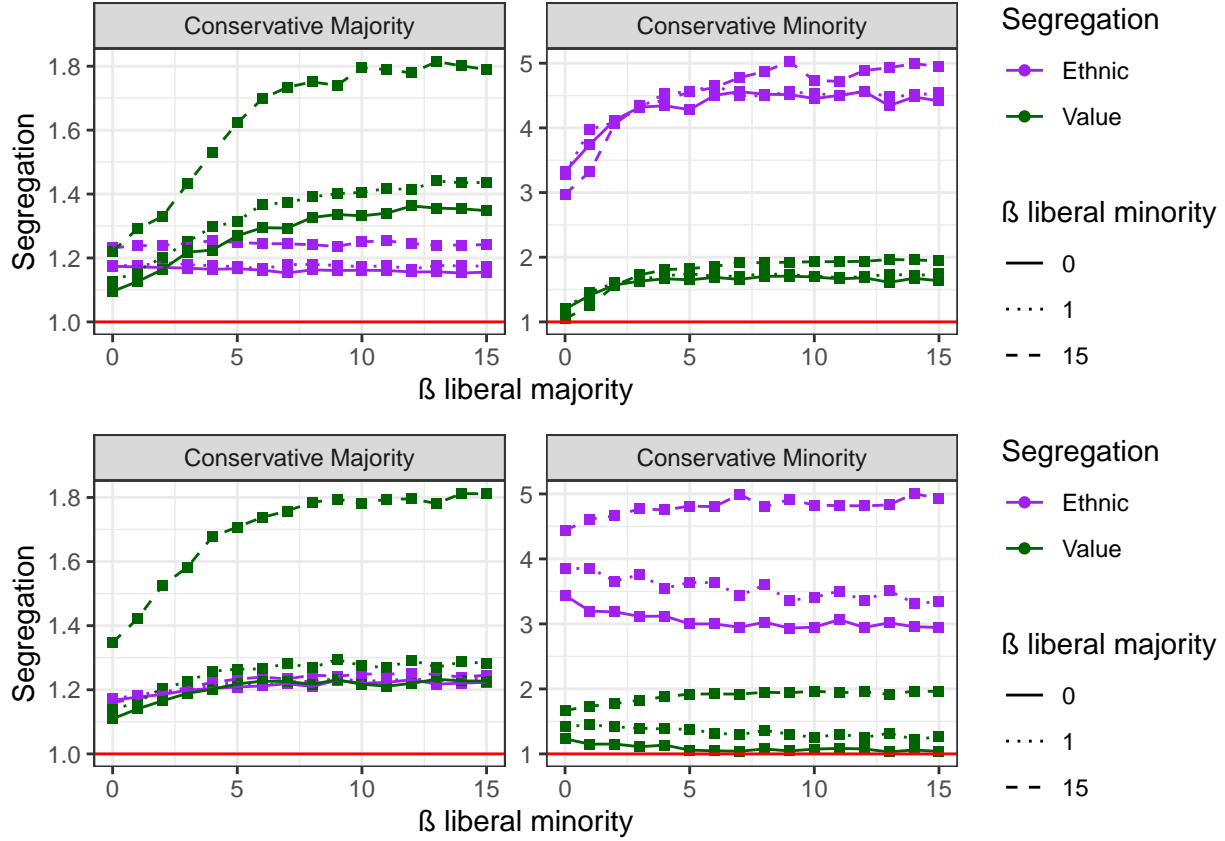


Figure 10: Ethnic asymmetric: effect of β value liberals majority or liberals minority over conservatives majority and conservatives minority. Each panel reports patterns of conservative majority (left) or conservative minority (right). Top panel: effect of β value liberals majority (on x-axis), linetype: changes due to different levels of β value liberal minority. Bottom panel: effect of β value liberals minority (on x-axis), linetype: changes due to different levels of β value liberal majority. Conservative agents hold to dominant ethnic preference $\beta = 15$. Secondary preference for both conservative and liberals = 0

Fig: 10 focuses on effect of liberals majority and liberals minority over conservatives. The idea is to observe how the effect of liberals can vary depending on the value preference of ethnic counterpart, and how conservatives can differently being affected due to ethnic asymmetry. Expected: liberals majority have more influence than liberals minority, conservative majority are less affected than conservative minority.

The picture shows influence of liberals majority on top panel, liberals minority on bottom panel. If too complicated, we could split. Also here, β liberals ethnic counterpart as baseline, if too complex we could get it off.

Value segregation of conservative majority show similar patterns whether value of liberals minority is swept or liberals majority. Ethnic segregation (spatial clustering) of conservative minority is already high due to ethnic minority as Fig: 8 has shown, but it increases as liberal majority increase β value, as effect of rejection and limiting their space of relocation. This can be considered a by-product by ethnic asymmetry, compared to by-product by value in symmetric condition. Looking at bottom panel, for lower β liberal majority, increase in β liberal minority seems to slightly decrease ethnic segregation of conservative minority. Likely liberals of both ethnic groups form dense, value homogeneous neighborhoods with few liberals majority who are not sensitive to conservatives because of lower determinism, while liberals minority because value utility maximization is preserved, since few conservative minority. So, conservative minority can maximize ethnic utility at cost of living close to few liberals of majority group, which decreases the spatial clustering. As β liberal majority = 15, increase in β liberal minority is associated with higher ethnic clustering of conservative minority as in the top panel.

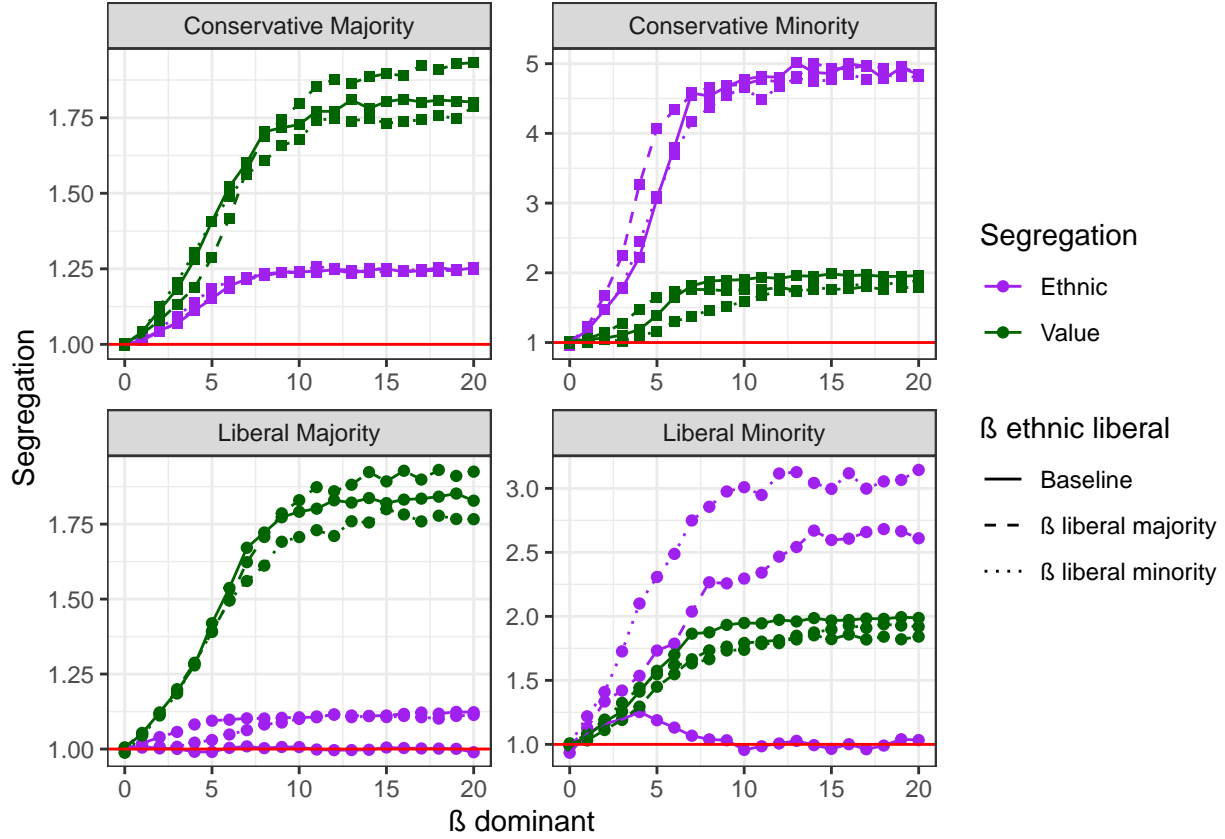


Figure 11: Ethnic asymmetric: effect of β ethnic of liberals (secondary) equal to β value liberals (dominant). x-axis: increase dominant preference for all agents (global parameter). Each panel reports segregation patterns of each group-type (ethnicXvalue). Linetype represents conditions compared: baseline: liberals of both ethnic groups hold only to dominant preference (β secondary = 0); β liberal majority = liberals majority hold same ethnic and value preference (liberals minority hold only to value preference), β liberal minority = liberals minority hold same ethnic and value preference (liberals majority hold only to value preference)

Finally, Fig: 11 shows effect of liberals majority or liberal minority holding both ethnic and value preference. Compared to Fig: 6, we observe how ethnic asymmetry interacts with degree of determinism. Each panel reports result for one group-type and compares a baseline where agents only subscribe to β dominant (β secondary = 0), to liberals majority subscribing also to β ethnic or liberals minority doing so.

Generally to interpret deeper. Liberals majority holding also ethnic preference increases the value by-product for conservative majority for high determinism compared to baseline, lower for higher randomness. For conservative minority, liberals majority holding also ethnic preference increases ethnic segregation compared to baseline for higher randomness are, liberals minority holding also ethnic preference shows no difference from baseline. Differences between conditions disappear for high determinism. For value segregation of conservative minority, lower value segregation as by-product occurs if liberals minority hold also ethnic preference in higher randomness area, it increases for liberals majority holding also ethnic preference. For higher determinism, differences between liberals majority and liberals minority disappear, with baseline showing (very slight) higher value.

For liberals majority, slight difference in value segregation occurs for high determinism, with higher value segregation of liberals majority if they hold also to ethnic preference, lower if liberals minority hold also ethnic preference. Slightly decrease in ethnic segregation for higher randomness if liberals majority hold also to ethnic preference. For liberals minority differences are more evident: value segregation decreases compared to baseline equally if liberals majority or liberals minority increase hold also ethnic preference. If liberals majority hold ethnic preference, ethnic segregation of liberals minority increases as they increase β value preference, since they can count only on liberals co-ethnics to maximize value utility. If also minority were to hold ethnic preference, ethnic segregation would be even higher, as direct effect of

their preference, decreasing value segregation because they would accept more co-ethnic conservatives.

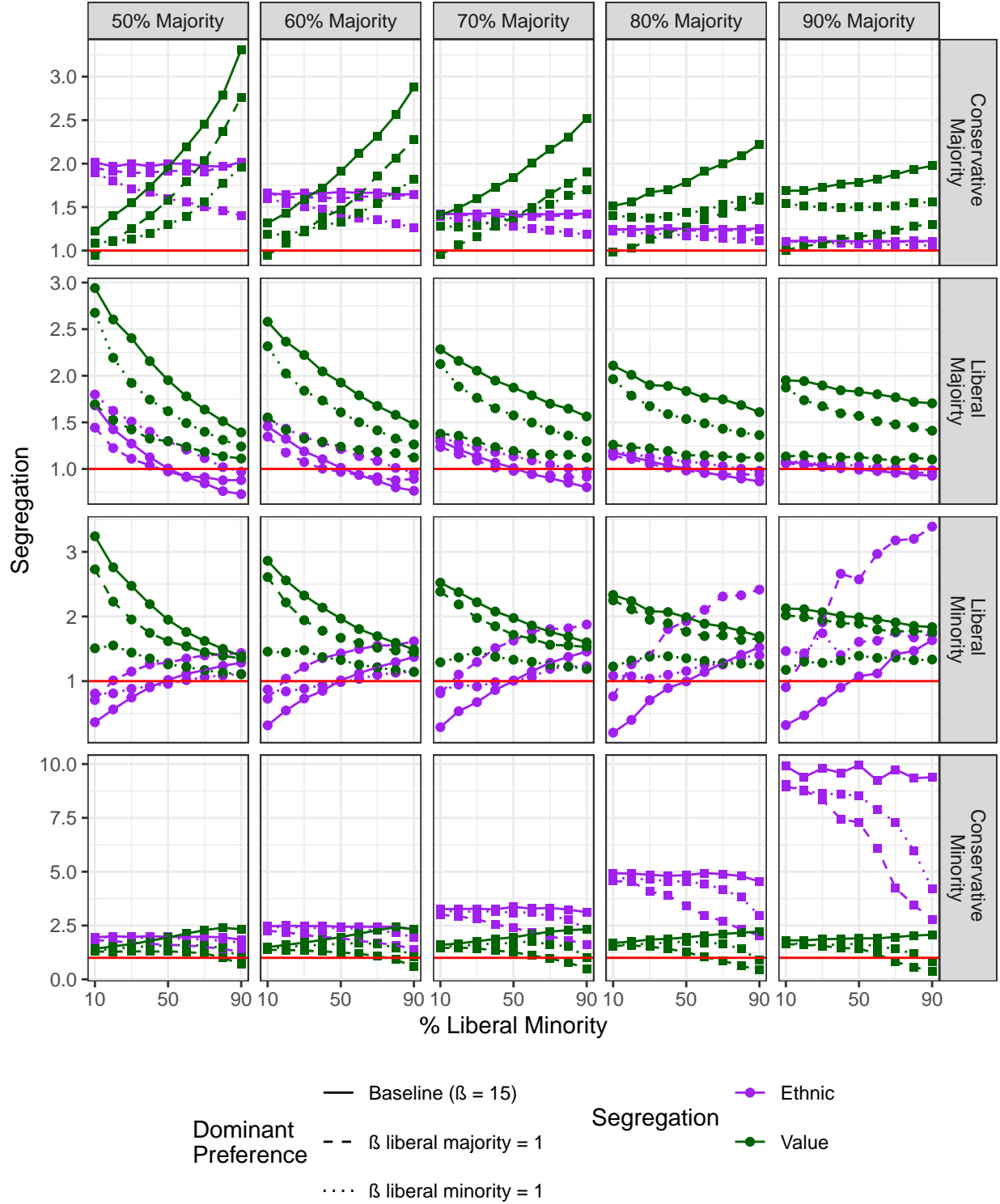


Figure 12: Comparison of lower determinism in liberals majority or liberals minority, effect of ethnic size and distribution of liberals. X-axis: percentage of liberals of ethnic minority, column: ethnic ratio majority/minority. Each row reports the behavior of specific group-type. Linetype: conditions compared. Baseline: all agents hold dominant preference $\beta = 15$, secondary preference $\beta = 0$; β liberal majority = 1: liberals majority have minimum determinism (liberals minority hold to β value = 15); β liberal minority = 1: liberals minority have minimum determinism (liberals majority hold to β value = 15). Conservatives of both ethnic groups hold to β ethnic = 15 in all conditions

Fig: 12 compares baseline dominant $\beta = 15$ to either lower value determinis ($\beta = 1$) of either liberals minority and liberals majority, and highlights differences due to population composition due to ethnic asymmetry and distribution of liberals.

I have to think about more. More interesting result is liberal majority falling into ethnic assimilation because of value preference, provided a critical mass is reached between ethnic ratio and distribution of liberals. Even if liberals minority increases, but their ethnic group is underrepresented, homophily based on value similarity will not make a difference. I think there are insights for the majority-minority paradigm and diverse societies here, with due limits. Anyway, I have to think of for the specific conditions.

I include 90% conclusion for completeness. However, this creates an extreme condition where segregation/assimilation occurs mostly for ethnic asymmetry, it is too unbalanced and value to extreme compared to others. However, we can decide about later.

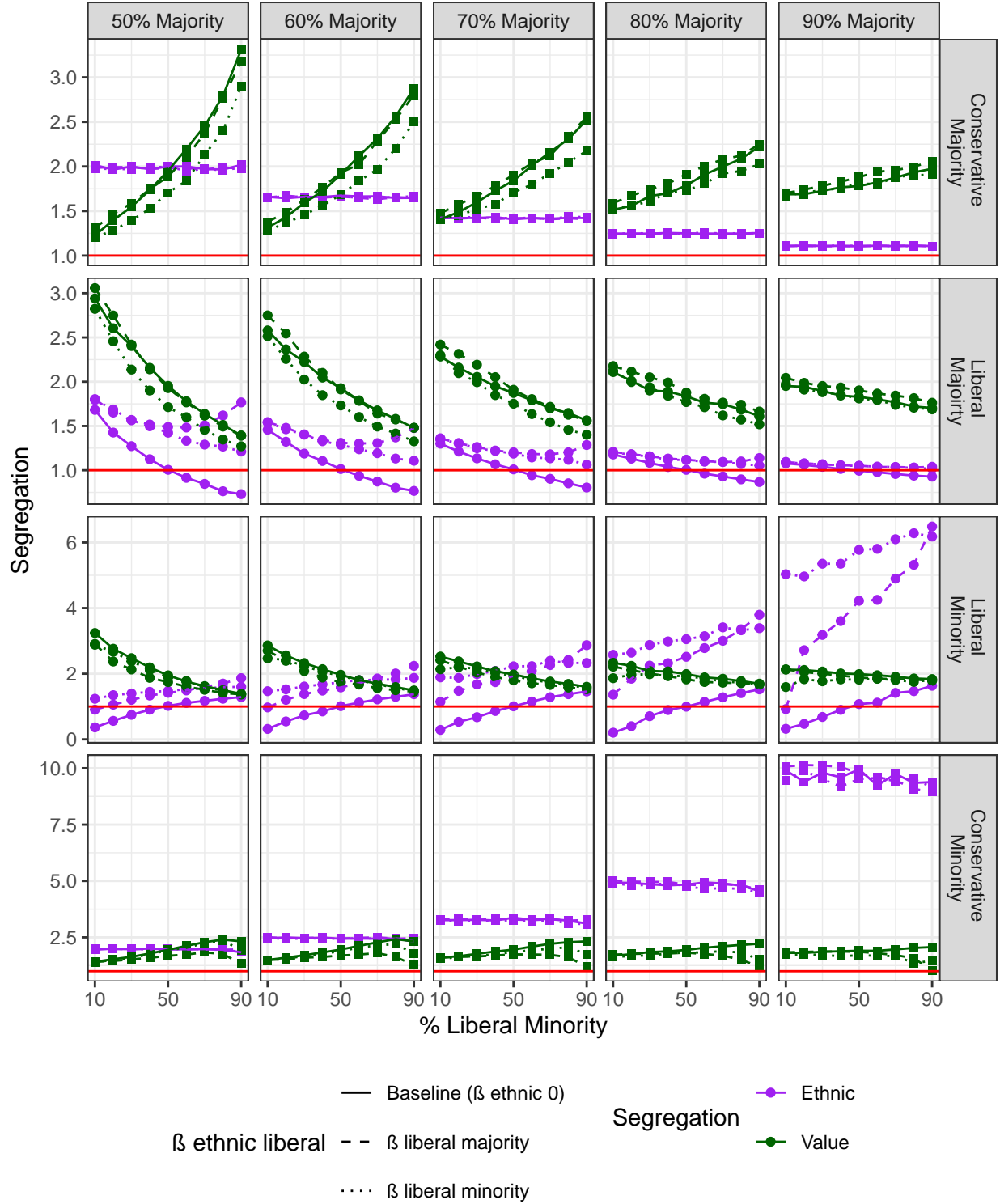


Figure 13: Comparison of liberals holding both ethnic and value preference, effect of ethnic size and distribution of liberals. Linetype: conditions compared. Conservatives of both ethnic group hold β ethnic = 15 and β secondary (value) = 0. Baseline: both liberals and conservatives hold dominant preference β = 15 and secondary β = 0; β liberal majority = liberals majority hold both ethnic and value preference β = 15 (liberals minority hold β value = 15 and β ethnic = 0); β liberals minority = liberals minority hold both ethnic and value preference β = 15 (liberals majority hold β value = 15 and β ethnic = 0)

Fig: 13, same as Fig: 12 for liberals holding also to ethnic preference, how segregation will differ from baseline $\beta = 15$ and for combination ethnic size and distribution of liberals. Seems less changes, but it has to be thought about.

Discussion and Conclusions (working on)

Rocco: more to the point: societies show lower ethnic segregation, increasing other dimensions (e.g. ses), and literature shows other characteristics matter > acs2018 > now discrete choice and other extension, in medias res; results similar to ?

Schelling's model is often cited to describe how high levels of spatial ethnic segregation can persist in society even if people hold slight preference to live close to co-ethnics. However, the high complexity of current society challenge some assumption of the model. In particular, people belong to different categories, both within and between ethnic groups, and literature suggesting ethnicity could be less relevant than other categories to define similarity preferences in relocation choice. In this paper we wanted to extend Schelling to these scenario. We built on ? extension of Schelling to the scenario of members of the same ethnic group sharing common attributes with out-groups and holding higher preference for either ethnic membership or secondary characteristics. We extend the model to discrete choice random utility models, testing on effect of different weights (level of randomness) of agents and letting agents hold both ethnic and value preference. Our results confirm some peculiarities of value similarity based on shared attributes across ethnic membership despite our change to the decisional process of agents. First, value similarity can induce a by-product segregation of conservatives who do not care about secondary attributes. Second, value similarity form denser neighborhoods due to inclusion of co-values from both ethnic groups; neighborhoods become more resilient to fluctuations in neighborhood composition. As already observed in ? the tendency is to form robust neighborhood value homogeneous but ethnically integrated.

Most results are similar to ? because a threshold = 0 equals to randomness $\beta = 0$ in terms of relocation decision of agents and aggregated results. However, inclusion of randomness, along with preference for both ethnic and value similarity, and sensitivity to different group size, show different highlights on the segregation process.

Our results show who the definition of similarity based on shared characteristics might be not sufficient to guarantee spatial integration between groups. If people care about both ethnic and value similarity, full segregation for both dimension would lead to division of society in four group-types. However, lower determinism in the relocation choice can decrease segregation. If liberals become more ethnically conservatives, they would need higher preference to reach full ethnic segregation, as long as conservatives not care about secondary preference. On the contrary, value segregation of conservatives would not increase if they were to increase value preference, as long as liberals are enough to enact by-product value-segregation. This could explain why segregation by ses seems stronger than ethnic segregation Rocco: costs to be considered and ethnic homogeneous neighborhoods are often also ses and educational homogeneous Rocco: link to double segregation in Fossett, not because of affordability, but because of by-product of other classes wanting to segregate. Sensitivity analysis shows the role of relative sizes. First, effects due to majority are higher, this is evident from liberals majority who can cause more changes in the model. Even if liberals minority could cause the same mechanism, they don't reach a critical mass to do so. Relative size show how same preference in terms of weights can have different effect: for majority remaining in high ethnic exposure though not spatially segregating, while for minority higher spatial clustering emerges to satisfy even low preference. Segregation patterns of liberals: even if liberals of two ethnic groups recognize each other as similar, this would not translate into integrated neighborhoods because of relative sizes. The result shows ethnic assimilation of liberals minority separated from their co-ethnics with different secondary attributes. Only if distribution of liberals increases to a certain critical mass, the ethnic exposure of majority as effect of value similarity would diminish We show how integration can emerge from the condition where majority increase ethnic preference, through adaptation between liberals and conservatives of minority group and the spatial configurations formed.

Rocco: to compare with Schelling: how segregation is a stable results, when and why in our model integration can emerge

In Schelling, segregation as unstable condition results from all agents holding the same threshold (hold same preference) within spatial constraints and cascades that change neighborhood composition. In our results, segregation would equally emerge if agents hold high deterministic preference (higher β) for both dimensions. Integration will persist if agents hold random behavior for either or both dimensions, and the structural conditions of ethnic sizes and value distribution

Limits: a mix of linear combinations, all can be predicted, once the model is understood.

Next steps: to overcome tendency to segregation, a first step is to change the shape of utility function, along with the two-dimensional homophily behavior. **Rocco:** This links to the literature showing how segregation emerges also for integrationist preferences (Zhang, Van Rijt etc.) third paper of the dissertation I am working on

Annex A: β secondary as function of β dominant

In this version of the model (e_v_rum_secfdom.nlogo), secondary preference is derived from dominant preference

$$\beta \text{ secondary} = \beta \text{ dominant} * w$$

with $w \in [0, 1]$. For $w = 0$, β secondary is equal 0; for $w = 1$, β secondary is equal to β dominant.

Fig. 14 compares increase in secondary preference for liberals (top row) and conservatives (bottom row) for all ranges of β dominant which is reported on the x-axis. It reports 3 conditions: $w = 0$, $w = 1$ and the intermediate condition $w = 0.5$, i.e. β secondary is half of β dominant.

Fig: 15 focuses on change in secondary β ethnic of liberals for all levels of w , showing results for conservatives (top row) and liberals (bottom row). Fig: 16 repeats for change in secondary β value of conservatives

Fig: 15 and Fig: 16 show all levels of w for secondary preference of liberals or conservatives.

Fig. 14 is a filtered and more text-wise combination of Fig: 15 and Fig: 16. In all conditions we have too much information in the figures. For sake of simplicity we could decide: 1) Keep Fig. 14 in the text, deleting what are now Fig: 4, equal to $w = 0$ and 6 equal to $w = 1$ and leave Fig: 15 and Fig: 16 in an Annex 2) Leave as it is now with 4 and 6, and still Fig: 15 and Fig: 16 in an Annex

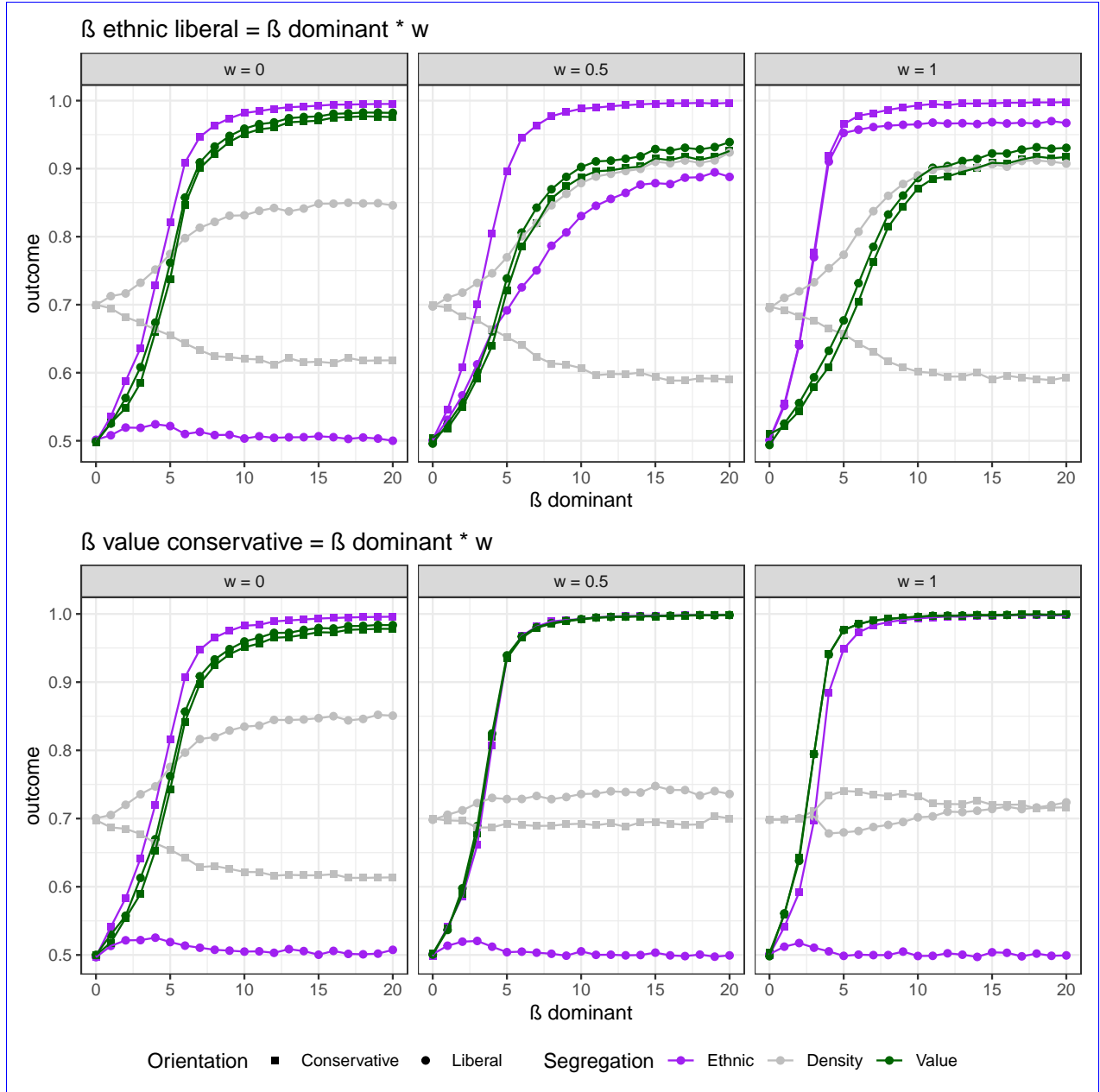


Figure 14: Baseline condition, β secondary as function of β dominant. X-axis reports β dominant for all agents (value for liberals and ethnic for conservative). In the top row, change in secondary β ethnic of liberals (secondary β value of conservative = 0 in all conditions). In the bottom row, change in secondary β value of conservatives (secondary β ethnic of liberals = 0 in all conditions). Each panel refers to one level of w

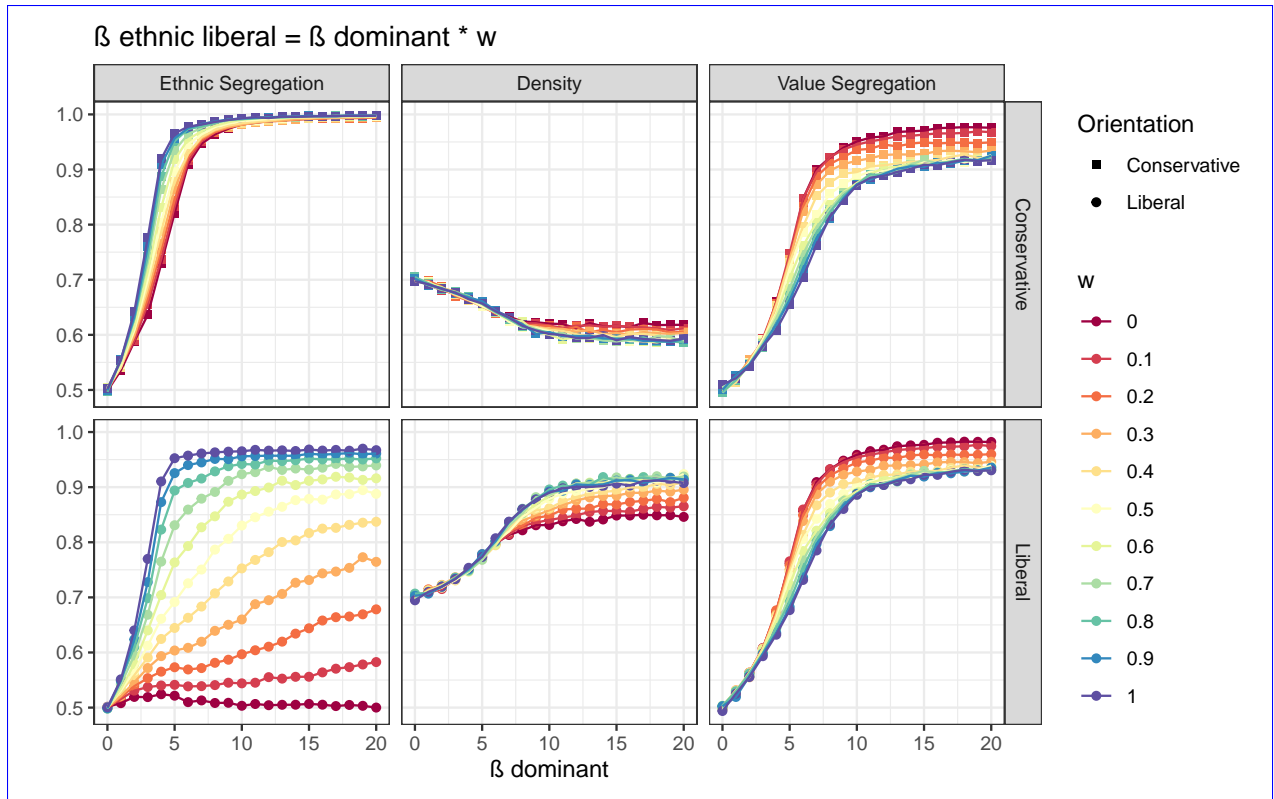


Figure 15: Focus on secondary β ethnic of liberals for all levels of w. On x-axis is the increase in β dominant for all agents (secondary β value of conservative = 0 in all conditions). Each panel reports one outcome: ethnic segregation, density, value segregation. On the top row, change in outcome of conservatives is reported. On the bottom row, change in outcome of liberals is reported

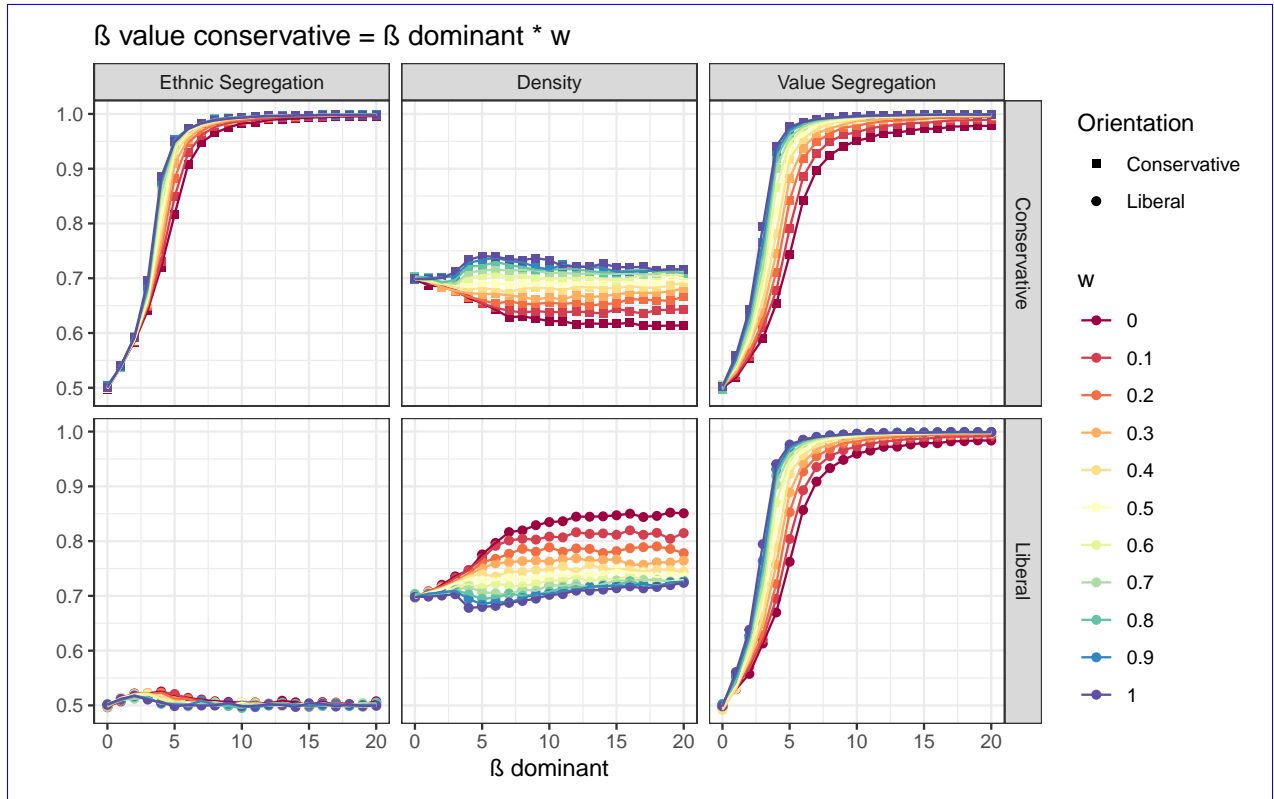


Figure 16: Focus on secondary β value of conservatives for all levels of w . On x-axis is the increase in β dominant for all agents (secondary β ethnic of liberals = 0 in all conditions). Each panel reports one outcome: ethnic segregation, density, value segregation. On the top row, change in outcome of conservatives is reported. On the bottom row, change in outcome of liberals is reported

Annex B: Robustness Analysis

Table 2: β dominant = liberal

Dominant	Conservatives						Liberals					
	Ethnic		Value		Density		Ethnic		Value		Density	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.502	0.009	0.500	0.015	0.707	0.012	0.502	0.010	0.506	0.015	0.703	0.010
1	0.558	0.010	0.550	0.014	0.700	0.010	0.557	0.008	0.556	0.013	0.701	0.009
2	0.644	0.010	0.635	0.015	0.699	0.008	0.643	0.017	0.634	0.012	0.700	0.013
3	0.780	0.021	0.781	0.020	0.706	0.007	0.780	0.012	0.775	0.021	0.703	0.012
4	0.921	0.014	0.914	0.009	0.706	0.012	0.914	0.014	0.913	0.009	0.713	0.010
5	0.962	0.009	0.964	0.007	0.710	0.014	0.964	0.009	0.964	0.007	0.714	0.012
6	0.982	0.003	0.980	0.003	0.714	0.008	0.982	0.005	0.981	0.003	0.713	0.011
7	0.992	0.003	0.988	0.002	0.714	0.011	0.989	0.004	0.988	0.003	0.716	0.010
8	0.993	0.003	0.994	0.002	0.717	0.015	0.991	0.004	0.993	0.002	0.727	0.010
9	0.995	0.002	0.995	0.001	0.717	0.016	0.995	0.003	0.995	0.001	0.719	0.019
10	0.996	0.001	0.996	0.002	0.723	0.012	0.996	0.001	0.996	0.001	0.721	0.015
11	0.997	0.002	0.997	0.001	0.724	0.019	0.996	0.002	0.997	0.001	0.719	0.011
12	0.998	0.002	0.997	0.001	0.720	0.008	0.997	0.002	0.997	0.001	0.720	0.013
13	0.999	0.001	0.998	0.001	0.728	0.011	0.997	0.002	0.998	0.001	0.713	0.016
14	0.999	0.001	0.998	0.001	0.726	0.022	0.998	0.001	0.997	0.001	0.729	0.012
15	0.998	0.001	0.999	0.001	0.734	0.017	0.998	0.001	0.999	0.001	0.726	0.015
16	0.998	0.002	0.999	0.001	0.729	0.014	0.999	0.001	0.999	0.001	0.719	0.010
17	0.998	0.002	0.999	0.001	0.724	0.017	0.998	0.001	0.999	0.001	0.723	0.013
18	0.999	0.001	0.999	0.001	0.719	0.011	0.999	0.001	0.999	0.001	0.729	0.013
19	0.999	0.001	0.999	0.001	0.723	0.015	0.999	0.002	0.999	0.001	0.721	0.010
20	0.999	0.001	0.998	0.001	0.722	0.014	1.000	0.001	0.999	0.001	0.724	0.012

Table 3: β secondary = 0

Dominant	Conservatives						Liberals					
	Ethnic		Value		Density		Ethnic		Value		Density	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.496	0.009	0.497	0.015	0.701	0.009	0.499	0.009	0.502	0.013	0.705	0.007
1	0.543	0.009	0.522	0.010	0.692	0.009	0.509	0.010	0.531	0.019	0.707	0.009
2	0.586	0.008	0.542	0.010	0.683	0.013	0.518	0.008	0.563	0.014	0.722	0.010
3	0.647	0.006	0.583	0.011	0.670	0.008	0.526	0.010	0.604	0.015	0.728	0.009
4	0.717	0.014	0.650	0.013	0.671	0.013	0.527	0.013	0.668	0.010	0.755	0.008
5	0.818	0.014	0.741	0.022	0.657	0.013	0.523	0.011	0.757	0.015	0.774	0.016
6	0.904	0.014	0.841	0.013	0.643	0.010	0.515	0.007	0.854	0.013	0.792	0.012
7	0.946	0.009	0.896	0.016	0.635	0.009	0.513	0.010	0.909	0.011	0.810	0.008
8	0.967	0.006	0.927	0.014	0.626	0.015	0.507	0.006	0.938	0.011	0.825	0.013
9	0.977	0.003	0.943	0.005	0.626	0.012	0.510	0.009	0.950	0.005	0.831	0.009
10	0.982	0.004	0.953	0.009	0.618	0.006	0.499	0.009	0.959	0.008	0.834	0.013
11	0.984	0.003	0.959	0.006	0.624	0.009	0.503	0.008	0.966	0.004	0.835	0.010
12	0.988	0.002	0.960	0.005	0.620	0.011	0.503	0.009	0.968	0.005	0.840	0.011
13	0.990	0.003	0.967	0.007	0.618	0.014	0.505	0.009	0.974	0.006	0.836	0.011
14	0.991	0.003	0.968	0.004	0.611	0.013	0.502	0.011	0.976	0.003	0.846	0.014
15	0.992	0.003	0.976	0.004	0.618	0.012	0.504	0.009	0.982	0.003	0.850	0.013
16	0.994	0.002	0.973	0.005	0.624	0.013	0.502	0.007	0.980	0.005	0.849	0.010
17	0.995	0.002	0.974	0.005	0.609	0.016	0.506	0.011	0.980	0.004	0.844	0.015
18	0.995	0.002	0.974	0.006	0.621	0.009	0.506	0.004	0.981	0.004	0.851	0.017
19	0.995	0.002	0.976	0.005	0.616	0.011	0.506	0.009	0.982	0.004	0.852	0.009
20	0.995	0.001	0.979	0.003	0.620	0.009	0.504	0.008	0.984	0.003	0.849	0.013

Table 4: Referred to Fig: 5

Liberals Segregation												
β liberal	β conservative = 0						β conservative = 20					
	Ethnic		Value		Density		Ethnic		Value		Density	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.500	0.007	0.501	0.012	0.696	0.009	0.542	0.011	0.577	0.010	0.677	0.010
1	0.503	0.009	0.521	0.010	0.705	0.013	0.532	0.014	0.625	0.008	0.674	0.011
2	0.501	0.010	0.556	0.014	0.723	0.005	0.531	0.010	0.700	0.012	0.680	0.013
3	0.499	0.011	0.596	0.018	0.737	0.010	0.521	0.011	0.785	0.014	0.689	0.009
4	0.504	0.007	0.637	0.018	0.764	0.010	0.513	0.011	0.861	0.012	0.711	0.013
5	0.496	0.009	0.676	0.017	0.775	0.005	0.504	0.008	0.917	0.012	0.723	0.013
6	0.506	0.009	0.718	0.012	0.810	0.007	0.506	0.008	0.944	0.006	0.749	0.011
7	0.503	0.010	0.779	0.013	0.845	0.015	0.497	0.008	0.959	0.006	0.775	0.012
8	0.500	0.010	0.841	0.020	0.885	0.015	0.506	0.011	0.968	0.005	0.789	0.011
9	0.502	0.006	0.876	0.012	0.901	0.013	0.507	0.008	0.971	0.003	0.803	0.012
10	0.498	0.009	0.901	0.008	0.929	0.007	0.508	0.008	0.974	0.005	0.805	0.017
11	0.503	0.009	0.915	0.008	0.935	0.007	0.505	0.006	0.976	0.006	0.817	0.008
12	0.501	0.011	0.924	0.006	0.939	0.007	0.506	0.007	0.980	0.003	0.826	0.012
13	0.501	0.007	0.930	0.008	0.944	0.004	0.504	0.010	0.982	0.003	0.825	0.015
14	0.504	0.010	0.926	0.008	0.944	0.005	0.499	0.007	0.982	0.003	0.839	0.012
15	0.501	0.010	0.931	0.010	0.946	0.007	0.499	0.011	0.982	0.003	0.842	0.015
16	0.502	0.008	0.931	0.009	0.948	0.007	0.502	0.006	0.982	0.002	0.844	0.012
17	0.504	0.009	0.933	0.007	0.952	0.008	0.504	0.005	0.983	0.002	0.848	0.014
18	0.499	0.004	0.927	0.009	0.948	0.006	0.501	0.007	0.984	0.003	0.847	0.008
19	0.499	0.005	0.937	0.007	0.948	0.006	0.504	0.013	0.983	0.004	0.846	0.011
20	0.498	0.011	0.935	0.007	0.949	0.006	0.507	0.008	0.980	0.003	0.853	0.008

Conservatives Segregation												
β cons	β liberal = 0						β liberal = 20					
	Ethnic		Value		Density		Ethnic		Value		Density	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.497	0.007	0.504	0.011	0.699	0.010	0.502	0.012	0.927	0.009	0.554	0.009
1	0.532	0.009	0.501	0.019	0.702	0.007	0.568	0.009	0.921	0.014	0.565	0.014
2	0.584	0.006	0.506	0.014	0.700	0.008	0.663	0.015	0.923	0.009	0.566	0.011
3	0.624	0.010	0.504	0.015	0.701	0.007	0.768	0.017	0.933	0.007	0.571	0.012
4	0.662	0.009	0.521	0.011	0.699	0.014	0.887	0.012	0.933	0.008	0.582	0.011
5	0.697	0.014	0.517	0.014	0.709	0.012	0.944	0.009	0.943	0.005	0.592	0.014
6	0.712	0.012	0.524	0.011	0.710	0.011	0.965	0.006	0.950	0.007	0.592	0.012
7	0.735	0.010	0.538	0.019	0.718	0.010	0.972	0.003	0.951	0.008	0.588	0.015
8	0.758	0.013	0.549	0.015	0.720	0.010	0.982	0.004	0.957	0.008	0.596	0.013
9	0.759	0.009	0.551	0.011	0.722	0.005	0.984	0.004	0.961	0.008	0.606	0.012
10	0.775	0.013	0.558	0.016	0.730	0.011	0.986	0.003	0.961	0.010	0.603	0.008
11	0.782	0.009	0.558	0.011	0.731	0.010	0.989	0.003	0.969	0.005	0.602	0.020
12	0.793	0.013	0.572	0.012	0.729	0.011	0.990	0.002	0.967	0.005	0.609	0.012
13	0.788	0.012	0.562	0.014	0.730	0.011	0.991	0.003	0.968	0.004	0.606	0.011
14	0.792	0.008	0.569	0.007	0.736	0.009	0.992	0.003	0.971	0.006	0.612	0.012
15	0.803	0.012	0.580	0.009	0.734	0.004	0.992	0.002	0.972	0.006	0.608	0.015
16	0.799	0.016	0.577	0.025	0.735	0.009	0.994	0.002	0.976	0.004	0.615	0.013
17	0.801	0.005	0.582	0.013	0.737	0.015	0.995	0.001	0.973	0.003	0.611	0.014
18	0.804	0.015	0.585	0.015	0.741	0.006	0.995	0.002	0.975	0.006	0.616	0.013
19	0.805	0.009	0.582	0.016	0.739	0.017	0.996	0.002	0.977	0.003	0.622	0.011
20	0.806	0.014	0.580	0.016	0.738	0.010	0.996	0.002	0.978	0.005	0.608	0.015

Table 5: Sensitivity secondary preference by type-group

Dominant	Conservatives						Liberals					
	Ethnic		Value		Density		Ethnic		Value		Density	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
β value liberal = ethnic												
0	0.499	0.012	0.491	0.015	0.701	0.008	0.502	0.006	0.507	0.015	0.704	0.007
1	0.555	0.009	0.525	0.017	0.692	0.010	0.559	0.010	0.526	0.018	0.709	0.009
2	0.646	0.014	0.547	0.015	0.685	0.009	0.644	0.012	0.562	0.015	0.722	0.007
3	0.779	0.013	0.577	0.015	0.677	0.012	0.773	0.015	0.597	0.012	0.736	0.010
4	0.917	0.007	0.617	0.010	0.665	0.010	0.905	0.006	0.638	0.013	0.755	0.008
5	0.964	0.008	0.653	0.011	0.659	0.009	0.947	0.012	0.677	0.008	0.777	0.010
6	0.977	0.005	0.710	0.014	0.641	0.013	0.960	0.005	0.731	0.009	0.800	0.009
7	0.985	0.004	0.766	0.009	0.633	0.008	0.962	0.012	0.788	0.009	0.837	0.007
8	0.986	0.002	0.818	0.015	0.618	0.017	0.960	0.007	0.837	0.008	0.863	0.013
9	0.990	0.003	0.848	0.021	0.610	0.008	0.971	0.007	0.865	0.014	0.878	0.012
10	0.992	0.002	0.865	0.015	0.596	0.012	0.968	0.009	0.882	0.014	0.884	0.010
11	0.995	0.002	0.877	0.010	0.599	0.012	0.963	0.009	0.895	0.008	0.890	0.010
12	0.995	0.003	0.895	0.017	0.596	0.013	0.963	0.006	0.908	0.014	0.903	0.013
13	0.996	0.001	0.897	0.015	0.587	0.010	0.967	0.008	0.914	0.010	0.904	0.010
14	0.996	0.001	0.904	0.009	0.590	0.012	0.968	0.005	0.917	0.010	0.907	0.007
15	0.997	0.002	0.904	0.014	0.594	0.013	0.970	0.005	0.919	0.013	0.905	0.008
16	0.997	0.001	0.909	0.016	0.600	0.010	0.967	0.005	0.921	0.014	0.909	0.014
17	0.998	0.001	0.915	0.014	0.604	0.013	0.966	0.006	0.928	0.012	0.910	0.009
18	0.997	0.002	0.914	0.009	0.594	0.014	0.966	0.007	0.928	0.010	0.910	0.009
19	0.997	0.002	0.914	0.012	0.597	0.014	0.967	0.008	0.926	0.009	0.908	0.010
20	0.998	0.002	0.923	0.011	0.596	0.008	0.968	0.006	0.934	0.010	0.912	0.010
β ethnic conservative = value												
0	0.499	0.007	0.497	0.015	0.697	0.009	0.496	0.008	0.505	0.014	0.698	0.008
1	0.541	0.008	0.551	0.012	0.697	0.008	0.513	0.011	0.558	0.016	0.699	0.009
2	0.590	0.011	0.651	0.019	0.703	0.009	0.515	0.006	0.644	0.009	0.697	0.011
3	0.689	0.012	0.798	0.013	0.717	0.007	0.509	0.008	0.791	0.013	0.703	0.015
4	0.886	0.011	0.940	0.009	0.737	0.010	0.504	0.011	0.941	0.008	0.681	0.013
5	0.951	0.004	0.974	0.004	0.743	0.012	0.502	0.011	0.973	0.005	0.681	0.009
6	0.976	0.005	0.987	0.002	0.743	0.015	0.498	0.009	0.987	0.002	0.679	0.011
7	0.986	0.004	0.992	0.002	0.738	0.015	0.502	0.009	0.991	0.002	0.686	0.014
8	0.988	0.002	0.993	0.002	0.733	0.011	0.499	0.013	0.993	0.002	0.696	0.018
9	0.991	0.003	0.995	0.002	0.724	0.017	0.501	0.010	0.995	0.002	0.686	0.012
10	0.995	0.002	0.996	0.001	0.730	0.011	0.499	0.007	0.996	0.001	0.696	0.014
11	0.995	0.003	0.997	0.001	0.731	0.011	0.504	0.010	0.997	0.001	0.695	0.013
12	0.995	0.002	0.997	0.001	0.721	0.013	0.500	0.008	0.997	0.001	0.705	0.016
13	0.997	0.002	0.998	0.001	0.712	0.005	0.499	0.010	0.998	0.001	0.714	0.009
14	0.997	0.002	0.999	0.001	0.716	0.013	0.498	0.010	0.999	0.001	0.712	0.010
15	0.998	0.001	0.998	0.001	0.712	0.013	0.493	0.005	0.998	0.001	0.716	0.011
16	0.998	0.001	0.999	0.001	0.718	0.013	0.501	0.010	0.998	0.001	0.711	0.011
17	0.998	0.002	0.999	0.001	0.713	0.011	0.491	0.013	0.999	0.001	0.717	0.009
18	0.998	0.001	0.999	0.001	0.714	0.014	0.502	0.009	0.999	0.001	0.725	0.010
19	0.998	0.001	0.999	0.001	0.708	0.012	0.501	0.010	0.999	0.001	0.721	0.016
20	0.998	0.001	0.999	0.001	0.720	0.011	0.503	0.006	0.999	0.001	0.720	0.014

Table 6: Referred to Fig: 8. 50% Majority

Dominant	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.985	0.017	0.495	0.008	1.00	0.014	0.495	0.012	0.983	0.018	0.489	0.014	0.995	0.015	0.493	0.018
1	1.075	0.020	0.530	0.009	1.05	0.024	0.525	0.017	1.081	0.014	0.548	0.011	1.053	0.040	0.529	0.020
2	1.176	0.026	0.587	0.013	1.10	0.031	0.547	0.015	1.179	0.026	0.591	0.016	1.091	0.027	0.545	0.016
3	1.284	0.031	0.644	0.014	1.17	0.025	0.595	0.019	1.297	0.035	0.646	0.021	1.172	0.032	0.595	0.025
4	1.419	0.035	0.710	0.015	1.31	0.037	0.656	0.025	1.409	0.032	0.704	0.016	1.277	0.047	0.642	0.029
5	1.654	0.033	0.819	0.010	1.47	0.049	0.736	0.018	1.629	0.031	0.822	0.019	1.493	0.040	0.747	0.023
6	1.807	0.063	0.908	0.011	1.71	0.036	0.851	0.022	1.816	0.050	0.903	0.012	1.665	0.075	0.829	0.022
7	1.881	0.036	0.948	0.007	1.79	0.038	0.898	0.014	1.910	0.047	0.946	0.009	1.797	0.056	0.900	0.020
8	1.922	0.043	0.965	0.006	1.86	0.057	0.932	0.006	1.942	0.051	0.965	0.007	1.852	0.056	0.928	0.013
9	1.931	0.039	0.974	0.005	1.89	0.040	0.937	0.013	1.965	0.050	0.973	0.006	1.900	0.038	0.943	0.008
10	1.970	0.041	0.978	0.006	1.90	0.051	0.947	0.014	1.946	0.031	0.979	0.004	1.898	0.056	0.945	0.009
11	2.001	0.048	0.984	0.004	1.93	0.026	0.959	0.008	1.942	0.040	0.986	0.003	1.936	0.024	0.963	0.006
12	1.964	0.033	0.989	0.003	1.91	0.026	0.963	0.010	1.995	0.037	0.990	0.004	1.913	0.042	0.966	0.009
13	1.983	0.036	0.992	0.003	1.95	0.048	0.966	0.009	1.981	0.035	0.990	0.003	1.939	0.047	0.963	0.007
14	1.959	0.032	0.991	0.003	1.93	0.044	0.969	0.006	2.005	0.030	0.990	0.004	1.925	0.037	0.967	0.006
15	2.008	0.038	0.994	0.002	1.96	0.026	0.972	0.010	1.967	0.037	0.993	0.002	1.958	0.047	0.970	0.010
16	2.002	0.044	0.994	0.003	1.94	0.063	0.976	0.006	1.974	0.045	0.993	0.002	1.940	0.056	0.974	0.005
17	1.989	0.038	0.994	0.002	1.96	0.046	0.972	0.007	1.986	0.038	0.993	0.002	1.960	0.044	0.972	0.010
18	2.013	0.057	0.995	0.002	1.96	0.035	0.975	0.007	1.973	0.054	0.996	0.001	1.968	0.034	0.977	0.004
19	2.018	0.031	0.995	0.002	1.95	0.042	0.980	0.004	1.962	0.032	0.995	0.002	1.941	0.044	0.976	0.008
20	1.993	0.046	0.995	0.002	1.95	0.060	0.976	0.007	1.990	0.044	0.995	0.001	1.960	0.070	0.982	0.007

Dominant	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	1.000	0.025	0.503	0.017	0.999	0.017	0.504	0.019	0.993	0.023	0.494	0.012	0.991	0.019	0.500	0.012
1	1.019	0.018	0.503	0.012	1.070	0.028	0.533	0.017	1.008	0.020	0.511	0.015	1.054	0.031	0.525	0.022
2	1.046	0.021	0.522	0.013	1.121	0.026	0.561	0.015	1.043	0.015	0.523	0.008	1.115	0.024	0.558	0.016
3	1.059	0.033	0.532	0.015	1.230	0.036	0.606	0.015	1.041	0.021	0.518	0.017	1.207	0.033	0.595	0.014
4	1.028	0.026	0.514	0.015	1.337	0.044	0.665	0.013	1.049	0.027	0.524	0.020	1.333	0.032	0.663	0.010
5	1.043	0.036	0.517	0.020	1.510	0.038	0.754	0.017	1.035	0.031	0.523	0.019	1.528	0.046	0.763	0.009
6	1.006	0.035	0.506	0.028	1.715	0.047	0.860	0.006	1.044	0.031	0.520	0.025	1.695	0.035	0.850	0.015
7	1.018	0.025	0.514	0.017	1.820	0.054	0.907	0.009	1.019	0.027	0.505	0.020	1.829	0.049	0.912	0.014
8	1.006	0.030	0.506	0.017	1.887	0.041	0.941	0.006	1.007	0.020	0.501	0.018	1.880	0.038	0.937	0.010
9	1.009	0.031	0.509	0.018	1.881	0.036	0.947	0.009	1.010	0.022	0.501	0.017	1.887	0.036	0.950	0.005
10	1.005	0.036	0.499	0.019	1.905	0.045	0.956	0.009	1.013	0.022	0.510	0.016	1.902	0.047	0.954	0.007
11	1.003	0.021	0.494	0.015	1.927	0.028	0.968	0.005	0.995	0.030	0.506	0.022	1.929	0.027	0.969	0.005
12	1.010	0.034	0.508	0.017	1.960	0.037	0.970	0.006	1.017	0.032	0.505	0.016	1.961	0.030	0.971	0.003
13	1.020	0.026	0.510	0.014	1.931	0.047	0.971	0.007	1.015	0.037	0.507	0.023	1.933	0.048	0.972	0.004
14	1.004	0.037	0.508	0.015	1.962	0.044	0.975	0.004	1.009	0.028	0.498	0.018	1.963	0.047	0.975	0.004
15	1.011	0.026	0.501	0.012	1.941	0.044	0.979	0.006	1.012	0.038	0.511	0.022	1.940	0.036	0.978	0.007
16	1.011	0.024	0.502	0.017	1.973	0.067	0.981	0.005	1.013	0.046	0.510	0.023	1.973	0.070	0.981	0.004
17	0.993	0.036	0.496	0.021	1.945	0.041	0.979	0.005	1.003	0.030	0.502	0.018	1.947	0.047	0.980	0.006
18	1.013	0.022	0.501	0.020	1.953	0.033	0.983	0.005	1.004	0.035	0.507	0.015	1.950	0.032	0.982	0.005
19	1.013	0.029	0.499	0.013	1.983	0.039	0.985	0.003	0.998	0.015	0.506	0.010	1.975	0.040	0.981	0.007
20	1.011	0.037	0.505	0.023	1.972	0.066	0.982	0.005	1.006	0.041	0.504	0.026	1.978	0.054	0.986	0.006

Table 7: Referred to Fig: 8. 80%Majority

Dominant	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	0.995	0.006	0.800	0.009	1.00	0.017	0.507	0.015	1.01	0.088	0.198	0.023	1.02	0.029	0.518	0.013
1	1.021	0.010	0.814	0.014	1.05	0.026	0.527	0.022	1.14	0.108	0.230	0.024	1.00	0.040	0.503	0.029
2	1.047	0.010	0.837	0.013	1.12	0.019	0.556	0.010	1.40	0.151	0.280	0.026	1.04	0.042	0.517	0.025
3	1.072	0.009	0.861	0.011	1.19	0.026	0.599	0.012	1.79	0.179	0.353	0.032	1.10	0.040	0.555	0.024
4	1.108	0.013	0.883	0.006	1.28	0.038	0.634	0.020	2.26	0.138	0.459	0.031	1.24	0.068	0.615	0.033
5	1.155	0.015	0.923	0.008	1.38	0.044	0.698	0.023	3.12	0.207	0.625	0.034	1.42	0.054	0.716	0.031
6	1.191	0.010	0.953	0.008	1.52	0.032	0.761	0.014	3.90	0.340	0.776	0.043	1.63	0.079	0.816	0.036
7	1.218	0.015	0.974	0.004	1.63	0.045	0.810	0.013	4.41	0.212	0.883	0.032	1.81	0.069	0.900	0.030
8	1.228	0.012	0.983	0.003	1.68	0.030	0.845	0.012	4.66	0.191	0.928	0.015	1.86	0.056	0.940	0.018
9	1.227	0.011	0.990	0.002	1.75	0.032	0.874	0.012	4.88	0.202	0.943	0.024	1.90	0.063	0.946	0.024
10	1.245	0.010	0.989	0.003	1.76	0.034	0.875	0.016	4.63	0.176	0.949	0.014	1.91	0.048	0.950	0.012
11	1.242	0.018	0.993	0.001	1.78	0.040	0.884	0.010	4.85	0.293	0.969	0.008	1.95	0.057	0.972	0.013
12	1.248	0.014	0.994	0.001	1.78	0.031	0.892	0.009	4.82	0.211	0.978	0.006	1.96	0.045	0.980	0.006
13	1.247	0.014	0.995	0.001	1.79	0.048	0.894	0.010	4.83	0.179	0.974	0.009	1.95	0.052	0.974	0.012
14	1.248	0.010	0.996	0.001	1.80	0.053	0.901	0.010	4.85	0.188	0.976	0.008	1.95	0.052	0.975	0.011
15	1.246	0.015	0.997	0.002	1.80	0.036	0.897	0.013	4.89	0.206	0.975	0.012	1.95	0.038	0.974	0.011
16	1.241	0.011	0.996	0.001	1.80	0.040	0.899	0.014	4.95	0.213	0.975	0.013	1.95	0.041	0.973	0.015
17	1.245	0.018	0.997	0.001	1.79	0.041	0.898	0.011	4.95	0.244	0.982	0.010	1.96	0.050	0.982	0.009
18	1.252	0.010	0.997	0.001	1.79	0.036	0.907	0.010	4.83	0.138	0.982	0.007	1.94	0.036	0.982	0.007
19	1.242	0.015	0.998	0.000	1.80	0.040	0.904	0.009	5.03	0.271	0.985	0.004	1.95	0.044	0.983	0.007
20	1.246	0.009	0.997	0.001	1.81	0.051	0.904	0.010	4.90	0.152	0.978	0.006	1.95	0.065	0.977	0.011

Dominant	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
0	1.004	0.006	0.807	0.010	1.01	0.019	0.496	0.017	0.964	0.077	0.189	0.015	0.977	0.032	0.481	0.016
1	0.996	0.008	0.794	0.016	1.05	0.024	0.523	0.017	1.088	0.106	0.220	0.019	1.080	0.041	0.539	0.023
2	0.994	0.006	0.794	0.011	1.11	0.014	0.562	0.013	1.137	0.064	0.228	0.013	1.181	0.034	0.596	0.020
3	0.993	0.008	0.797	0.010	1.19	0.021	0.593	0.015	1.174	0.082	0.232	0.014	1.278	0.044	0.635	0.015
4	1.001	0.011	0.798	0.014	1.28	0.028	0.644	0.014	1.167	0.083	0.237	0.019	1.389	0.044	0.699	0.023
5	1.002	0.011	0.801	0.016	1.42	0.041	0.701	0.017	1.209	0.075	0.243	0.020	1.570	0.054	0.778	0.026
6	0.997	0.012	0.798	0.017	1.55	0.033	0.774	0.010	1.088	0.074	0.217	0.015	1.725	0.064	0.862	0.017
7	1.005	0.011	0.804	0.009	1.65	0.042	0.831	0.010	1.035	0.112	0.207	0.019	1.819	0.049	0.916	0.015
8	0.997	0.009	0.798	0.010	1.74	0.044	0.860	0.008	1.072	0.080	0.213	0.018	1.914	0.047	0.949	0.011
9	1.002	0.013	0.808	0.012	1.78	0.048	0.889	0.011	1.049	0.075	0.203	0.014	1.925	0.047	0.964	0.008
10	0.993	0.016	0.789	0.015	1.77	0.038	0.891	0.013	1.046	0.065	0.215	0.012	1.920	0.037	0.965	0.008
11	0.997	0.012	0.797	0.016	1.79	0.035	0.901	0.009	0.999	0.100	0.200	0.023	1.946	0.036	0.977	0.007
12	1.005	0.010	0.801	0.004	1.82	0.038	0.909	0.006	1.009	0.087	0.205	0.016	1.961	0.039	0.981	0.005
13	1.004	0.013	0.801	0.013	1.81	0.039	0.909	0.010	1.008	0.087	0.203	0.020	1.963	0.048	0.983	0.005
14	1.001	0.018	0.799	0.012	1.84	0.052	0.917	0.007	1.041	0.079	0.210	0.016	1.976	0.054	0.986	0.006
15	1.000	0.009	0.800	0.010	1.82	0.050	0.914	0.011	0.991	0.104	0.198	0.024	1.970	0.049	0.987	0.005
16	0.998	0.007	0.801	0.008	1.83	0.042	0.916	0.010	1.014	0.072	0.200	0.016	1.971	0.044	0.987	0.004
17	1.002	0.011	0.802	0.018	1.84	0.041	0.915	0.009	0.992	0.098	0.197	0.020	1.988	0.041	0.989	0.003
18	0.994	0.007	0.792	0.007	1.86	0.046	0.921	0.008	1.032	0.085	0.210	0.018	2.007	0.045	0.991	0.002
19	1.001	0.013	0.805	0.016	1.85	0.035	0.919	0.007	1.034	0.103	0.203	0.026	1.999	0.039	0.992	0.003
20	1.002	0.012	0.802	0.010	1.84	0.055	0.920	0.008	1.006	0.048	0.201	0.011	1.985	0.065	0.991	0.005

Table 8: Referred to Fig: 9. Focus on liberals majority

β lib maj	Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
β liberal minority = 0								
0	1.010	0.007	0.806	0.007	1.05	0.026	0.521	0.021
1	1.028	0.011	0.819	0.012	1.14	0.017	0.565	0.015
2	1.046	0.011	0.833	0.013	1.23	0.018	0.608	0.011
3	1.050	0.008	0.841	0.008	1.29	0.032	0.646	0.014
4	1.065	0.012	0.850	0.010	1.33	0.024	0.663	0.012
5	1.061	0.015	0.844	0.013	1.38	0.020	0.687	0.011
6	1.075	0.008	0.861	0.010	1.41	0.026	0.705	0.017
7	1.073	0.008	0.865	0.009	1.42	0.032	0.706	0.012
8	1.083	0.008	0.866	0.011	1.45	0.045	0.728	0.011
9	1.082	0.011	0.865	0.010	1.45	0.031	0.732	0.011
10	1.091	0.014	0.869	0.012	1.48	0.033	0.736	0.014
11	1.090	0.007	0.872	0.015	1.50	0.027	0.737	0.012
12	1.092	0.007	0.877	0.012	1.48	0.022	0.748	0.011
13	1.089	0.011	0.869	0.009	1.50	0.025	0.743	0.009
14	1.095	0.014	0.875	0.011	1.49	0.029	0.747	0.015
15	1.098	0.012	0.876	0.008	1.50	0.029	0.743	0.014
β liberal minority = 1								
0	0.996	0.014	0.798	0.016	1.06	0.014	0.534	0.009
1	1.023	0.014	0.824	0.011	1.17	0.015	0.580	0.007
2	1.038	0.009	0.826	0.010	1.25	0.020	0.627	0.010
3	1.041	0.009	0.833	0.009	1.31	0.031	0.654	0.016
4	1.045	0.012	0.839	0.013	1.37	0.033	0.688	0.013
5	1.054	0.011	0.848	0.007	1.40	0.036	0.707	0.012
6	1.049	0.010	0.849	0.008	1.44	0.034	0.725	0.011
7	1.060	0.009	0.847	0.009	1.49	0.033	0.738	0.010
8	1.071	0.008	0.853	0.013	1.50	0.050	0.752	0.010
9	1.074	0.011	0.859	0.008	1.51	0.027	0.757	0.011
10	1.074	0.012	0.860	0.010	1.52	0.031	0.760	0.012
11	1.075	0.011	0.859	0.009	1.55	0.028	0.767	0.014
12	1.072	0.009	0.861	0.011	1.54	0.035	0.764	0.008
13	1.076	0.007	0.857	0.010	1.54	0.023	0.778	0.011
14	1.079	0.011	0.861	0.010	1.55	0.027	0.776	0.012
15	1.086	0.016	0.867	0.013	1.55	0.041	0.778	0.009
β liberal minority = 15								
0	0.970	0.008	0.773	0.007	1.06	0.017	0.530	0.014
1	0.977	0.013	0.778	0.017	1.17	0.022	0.583	0.011
2	0.998	0.014	0.798	0.017	1.28	0.020	0.638	0.010
3	1.003	0.009	0.801	0.016	1.41	0.038	0.707	0.013
4	1.001	0.016	0.795	0.017	1.52	0.027	0.760	0.009
5	0.991	0.010	0.791	0.013	1.63	0.053	0.813	0.018
6	0.991	0.010	0.793	0.010	1.67	0.021	0.845	0.011
7	1.002	0.013	0.802	0.010	1.73	0.045	0.873	0.011
8	0.989	0.011	0.794	0.014	1.78	0.042	0.887	0.012
9	1.001	0.010	0.808	0.009	1.80	0.037	0.891	0.015
10	0.994	0.011	0.792	0.009	1.81	0.047	0.906	0.007
11	0.998	0.008	0.793	0.007	1.83	0.034	0.910	0.009
12	0.994	0.014	0.795	0.011	1.84	0.042	0.909	0.012
13	1.001	0.016	0.805	0.015	1.80	0.034	0.913	0.012
14	0.999	0.013	0.802	0.018	1.84	0.043	0.918	0.010
15	0.994	0.009	0.797	0.009	1.83	0.047	0.913	0.010

Table 9: Referred to . Focus on liberals minority

β lib min	Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD
β liberal majority = 0								
0	1.256	0.133	0.247	0.026	1.32	0.042	0.663	0.023
1	1.403	0.080	0.280	0.015	1.36	0.036	0.685	0.019
2	1.410	0.144	0.280	0.026	1.46	0.031	0.728	0.015
3	1.574	0.149	0.315	0.032	1.52	0.034	0.757	0.020
4	1.663	0.116	0.333	0.023	1.55	0.043	0.782	0.018
5	1.735	0.088	0.347	0.020	1.58	0.056	0.795	0.014
6	1.807	0.131	0.361	0.029	1.61	0.040	0.804	0.018
7	1.830	0.125	0.370	0.018	1.63	0.040	0.811	0.022
8	1.879	0.156	0.367	0.032	1.66	0.035	0.829	0.016
9	2.015	0.089	0.414	0.011	1.67	0.039	0.829	0.020
10	1.975	0.133	0.394	0.025	1.67	0.050	0.842	0.020
11	2.065	0.218	0.412	0.041	1.70	0.058	0.838	0.013
12	2.065	0.182	0.422	0.031	1.71	0.051	0.849	0.007
13	2.121	0.177	0.414	0.025	1.70	0.050	0.845	0.017
14	2.021	0.092	0.403	0.019	1.67	0.046	0.845	0.010
15	2.089	0.125	0.417	0.020	1.70	0.042	0.849	0.015
β liberal majority = 1								
0	1.147	0.100	0.229	0.025	1.34	0.039	0.672	0.022
1	1.136	0.125	0.226	0.031	1.44	0.060	0.718	0.038
2	1.163	0.083	0.239	0.021	1.51	0.063	0.754	0.034
3	1.309	0.048	0.259	0.012	1.59	0.058	0.796	0.015
4	1.424	0.145	0.291	0.035	1.64	0.046	0.829	0.015
5	1.438	0.095	0.291	0.022	1.72	0.078	0.851	0.024
6	1.620	0.121	0.315	0.025	1.75	0.030	0.864	0.018
7	1.639	0.126	0.332	0.033	1.73	0.068	0.865	0.021
8	1.653	0.118	0.332	0.029	1.78	0.060	0.882	0.016
9	1.755	0.088	0.362	0.013	1.76	0.039	0.881	0.017
10	1.820	0.139	0.363	0.028	1.78	0.047	0.880	0.018
11	1.841	0.118	0.367	0.020	1.77	0.031	0.885	0.014
12	1.910	0.115	0.389	0.030	1.75	0.044	0.881	0.018
13	1.868	0.115	0.373	0.020	1.79	0.050	0.894	0.018
14	1.957	0.068	0.391	0.021	1.74	0.040	0.886	0.014
15	1.948	0.119	0.400	0.025	1.78	0.056	0.887	0.018
β liberal majority = 15								
0	1.202	0.120	0.244	0.024	1.21	0.069	0.606	0.036
1	1.071	0.124	0.212	0.027	1.37	0.049	0.681	0.036
2	1.148	0.151	0.228	0.030	1.50	0.044	0.758	0.019
3	1.085	0.079	0.214	0.015	1.68	0.053	0.832	0.025
4	1.042	0.096	0.209	0.018	1.77	0.037	0.893	0.017
5	1.013	0.093	0.204	0.019	1.87	0.037	0.933	0.011
6	1.009	0.077	0.205	0.018	1.92	0.031	0.952	0.009
7	1.048	0.106	0.204	0.020	1.95	0.088	0.968	0.009
8	0.997	0.065	0.202	0.013	1.93	0.045	0.972	0.007
9	1.009	0.091	0.200	0.016	1.97	0.021	0.981	0.003
10	1.037	0.097	0.211	0.022	1.96	0.047	0.983	0.006
11	1.017	0.085	0.206	0.016	1.98	0.075	0.983	0.004
12	1.013	0.063	0.206	0.012	1.97	0.033	0.985	0.003
13	0.978	0.069	0.198	0.020	2.00	0.044	0.986	0.006
14	0.957	0.065	0.187	0.013	1.96	0.029	0.986	0.004
15	1.044	0.068	0.208	0.022	1.99	0.040	0.991	0.004

Table 10: Referred to Fig: 10: effect of liberal majority

β liberal majority	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
β liberal minority = 0																
0	1.17	0.008	0.937	0.007	1.09	0.024	0.552	0.021	3.32	0.149	0.671	0.020	1.20	0.062	0.603	0.025
1	1.17	0.013	0.934	0.005	1.13	0.026	0.567	0.018	3.75	0.248	0.759	0.038	1.41	0.104	0.711	0.054
2	1.17	0.013	0.932	0.004	1.16	0.019	0.586	0.013	4.12	0.244	0.836	0.016	1.57	0.053	0.791	0.017
3	1.17	0.013	0.936	0.007	1.22	0.019	0.607	0.016	4.32	0.208	0.859	0.024	1.63	0.066	0.812	0.025
4	1.16	0.008	0.929	0.010	1.23	0.027	0.615	0.017	4.34	0.227	0.874	0.020	1.67	0.048	0.837	0.018
5	1.17	0.013	0.927	0.010	1.27	0.023	0.638	0.015	4.28	0.260	0.875	0.022	1.65	0.066	0.829	0.030
6	1.16	0.011	0.931	0.007	1.29	0.033	0.648	0.014	4.50	0.232	0.894	0.023	1.69	0.061	0.845	0.021
7	1.15	0.006	0.930	0.009	1.29	0.024	0.652	0.017	4.56	0.235	0.882	0.017	1.66	0.050	0.835	0.015
8	1.16	0.013	0.930	0.007	1.33	0.027	0.661	0.020	4.52	0.230	0.904	0.020	1.70	0.057	0.849	0.021
9	1.16	0.008	0.928	0.008	1.34	0.026	0.662	0.015	4.51	0.215	0.903	0.011	1.71	0.051	0.846	0.026
10	1.16	0.017	0.925	0.005	1.33	0.020	0.667	0.020	4.45	0.273	0.903	0.020	1.70	0.109	0.847	0.033
11	1.16	0.011	0.928	0.008	1.34	0.020	0.679	0.012	4.50	0.236	0.900	0.020	1.66	0.060	0.843	0.023
12	1.16	0.013	0.928	0.007	1.36	0.031	0.672	0.014	4.56	0.244	0.896	0.015	1.68	0.061	0.830	0.026
13	1.16	0.013	0.923	0.010	1.36	0.015	0.685	0.014	4.34	0.243	0.875	0.024	1.61	0.064	0.814	0.032
14	1.15	0.010	0.922	0.009	1.35	0.041	0.675	0.012	4.48	0.158	0.895	0.015	1.67	0.070	0.834	0.027
15	1.16	0.006	0.922	0.008	1.35	0.030	0.679	0.012	4.42	0.242	0.890	0.031	1.64	0.102	0.824	0.047
β liberal minority = 1																
0	1.18	0.014	0.943	0.008	1.13	0.027	0.556	0.021	3.29	0.233	0.653	0.030	1.21	0.053	0.599	0.028
1	1.18	0.014	0.946	0.005	1.16	0.022	0.584	0.013	3.98	0.243	0.774	0.039	1.46	0.080	0.736	0.046
2	1.19	0.014	0.944	0.004	1.20	0.034	0.596	0.015	4.09	0.151	0.834	0.027	1.60	0.063	0.795	0.036
3	1.18	0.016	0.944	0.007	1.25	0.027	0.627	0.016	4.31	0.255	0.856	0.023	1.66	0.051	0.830	0.024
4	1.18	0.010	0.945	0.005	1.30	0.031	0.645	0.017	4.54	0.314	0.889	0.023	1.71	0.062	0.852	0.037
5	1.17	0.013	0.943	0.008	1.31	0.027	0.650	0.017	4.56	0.229	0.891	0.017	1.74	0.046	0.861	0.019
6	1.17	0.010	0.944	0.005	1.37	0.031	0.680	0.018	4.66	0.091	0.886	0.020	1.71	0.050	0.848	0.024
7	1.18	0.012	0.942	0.005	1.37	0.031	0.692	0.011	4.49	0.222	0.903	0.011	1.71	0.041	0.860	0.025
8	1.18	0.014	0.939	0.009	1.39	0.026	0.693	0.024	4.50	0.321	0.912	0.018	1.75	0.055	0.869	0.023
9	1.18	0.013	0.941	0.007	1.40	0.024	0.701	0.014	4.56	0.197	0.911	0.013	1.73	0.049	0.866	0.028
10	1.17	0.011	0.938	0.007	1.40	0.034	0.701	0.011	4.53	0.255	0.902	0.019	1.71	0.063	0.851	0.028
11	1.18	0.011	0.939	0.007	1.42	0.037	0.714	0.010	4.50	0.136	0.905	0.022	1.69	0.076	0.850	0.027
12	1.16	0.014	0.936	0.006	1.41	0.019	0.711	0.014	4.57	0.284	0.895	0.018	1.70	0.031	0.853	0.023
13	1.18	0.009	0.936	0.012	1.44	0.026	0.713	0.010	4.48	0.272	0.912	0.016	1.74	0.059	0.860	0.019
14	1.18	0.015	0.938	0.004	1.44	0.031	0.718	0.013	4.51	0.218	0.906	0.014	1.72	0.048	0.859	0.022
15	1.17	0.011	0.937	0.011	1.44	0.036	0.714	0.020	4.54	0.311	0.915	0.019	1.74	0.061	0.866	0.033
β liberal minority = 15																
0	1.23	0.007	0.982	0.003	1.22	0.025	0.611	0.014	2.97	0.114	0.601	0.024	1.05	0.075	0.524	0.034
1	1.24	0.014	0.985	0.003	1.29	0.033	0.647	0.023	3.33	0.273	0.678	0.035	1.25	0.104	0.625	0.047
2	1.24	0.010	0.992	0.002	1.33	0.031	0.667	0.012	4.06	0.222	0.811	0.023	1.56	0.045	0.785	0.025
3	1.25	0.019	0.994	0.002	1.43	0.041	0.712	0.021	4.35	0.253	0.874	0.030	1.73	0.060	0.858	0.031
4	1.25	0.015	0.996	0.001	1.53	0.030	0.764	0.016	4.43	0.278	0.909	0.025	1.81	0.065	0.903	0.029
5	1.25	0.015	0.996	0.001	1.62	0.047	0.813	0.023	4.55	0.208	0.918	0.013	1.82	0.046	0.915	0.016
6	1.25	0.011	0.996	0.001	1.70	0.033	0.841	0.013	4.62	0.171	0.923	0.021	1.86	0.055	0.920	0.022
7	1.24	0.017	0.996	0.002	1.73	0.034	0.860	0.015	4.78	0.258	0.950	0.021	1.92	0.062	0.952	0.020
8	1.24	0.016	0.996	0.001	1.75	0.042	0.878	0.013	4.87	0.271	0.959	0.015	1.91	0.048	0.960	0.014
9	1.24	0.012	0.997	0.001	1.74	0.046	0.879	0.016	5.03	0.183	0.971	0.006	1.92	0.036	0.972	0.007
10	1.25	0.013	0.996	0.001	1.79	0.041	0.895	0.011	4.73	0.179	0.960	0.008	1.93	0.052	0.962	0.006
11	1.25	0.009	0.996	0.001	1.79	0.044	0.898	0.012	4.72	0.165	0.969	0.010	1.93	0.041	0.969	0.011
12	1.25	0.013	0.996	0.002	1.78	0.055	0.897	0.013	4.89	0.200	0.974	0.011	1.94	0.051	0.976	0.012
13	1.24	0.007	0.996	0.002	1.81	0.055	0.896	0.014	4.93	0.137	0.968	0.009	1.97	0.059	0.970	0.014
14	1.24	0.019	0.996	0.001	1.80	0.029	0.902	0.014	4.99	0.295	0.979	0.008	1.96	0.036	0.980	0.009
15	1.24	0.010	0.996	0.001	1.79	0.048	0.898	0.013	4.95	0.182	0.977	0.010	1.94	0.060	0.976	0.011

Table 11: Referred to Fig: 10: effect of liberal minority

β liberal minority	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
β liberal majority = 0																
0	1.17	0.008	0.937	0.006	1.11	0.026	0.551	0.010	3.44	0.251	0.675	0.040	1.23	0.096	0.612	0.052
1	1.18	0.009	0.942	0.005	1.14	0.014	0.565	0.019	3.20	0.220	0.637	0.042	1.15	0.102	0.569	0.049
2	1.18	0.010	0.950	0.006	1.17	0.039	0.584	0.015	3.18	0.238	0.632	0.041	1.15	0.103	0.577	0.053
3	1.20	0.016	0.958	0.005	1.19	0.033	0.596	0.024	3.12	0.273	0.623	0.041	1.11	0.116	0.555	0.048
4	1.21	0.010	0.963	0.006	1.20	0.028	0.595	0.017	3.12	0.193	0.623	0.022	1.14	0.067	0.562	0.033
5	1.21	0.012	0.967	0.008	1.22	0.025	0.605	0.021	3.00	0.217	0.598	0.031	1.06	0.062	0.525	0.036
6	1.21	0.008	0.970	0.006	1.23	0.022	0.615	0.013	3.00	0.113	0.598	0.017	1.05	0.024	0.525	0.017
7	1.22	0.009	0.972	0.004	1.23	0.027	0.615	0.018	2.95	0.075	0.596	0.026	1.04	0.060	0.522	0.034
8	1.21	0.014	0.973	0.003	1.22	0.028	0.608	0.021	3.02	0.110	0.591	0.031	1.08	0.044	0.537	0.021
9	1.23	0.012	0.977	0.004	1.23	0.024	0.620	0.018	2.94	0.098	0.603	0.026	1.04	0.056	0.526	0.033
10	1.22	0.014	0.976	0.004	1.22	0.032	0.604	0.019	2.95	0.187	0.588	0.025	1.07	0.050	0.533	0.025
11	1.22	0.013	0.978	0.006	1.21	0.025	0.612	0.013	3.06	0.271	0.611	0.029	1.08	0.062	0.549	0.039
12	1.23	0.023	0.978	0.003	1.22	0.029	0.613	0.020	2.95	0.152	0.603	0.034	1.07	0.051	0.540	0.031
13	1.22	0.010	0.979	0.003	1.23	0.033	0.620	0.018	3.02	0.214	0.589	0.037	1.03	0.101	0.518	0.051
14	1.22	0.015	0.977	0.003	1.23	0.016	0.606	0.016	2.96	0.182	0.589	0.027	1.06	0.048	0.523	0.025
15	1.22	0.009	0.979	0.003	1.23	0.028	0.614	0.019	2.94	0.182	0.587	0.023	1.04	0.082	0.519	0.041
β liberal majority = 1																
0	1.17	0.012	0.938	0.006	1.14	0.021	0.568	0.013	3.85	0.274	0.764	0.033	1.42	0.075	0.710	0.036
1	1.18	0.012	0.948	0.007	1.16	0.026	0.581	0.027	3.86	0.306	0.764	0.029	1.45	0.107	0.722	0.044
2	1.20	0.011	0.950	0.010	1.21	0.017	0.601	0.014	3.66	0.272	0.750	0.041	1.42	0.107	0.706	0.047
3	1.20	0.008	0.961	0.006	1.23	0.026	0.612	0.016	3.76	0.173	0.742	0.037	1.40	0.076	0.697	0.043
4	1.22	0.014	0.967	0.005	1.26	0.041	0.622	0.018	3.55	0.334	0.723	0.052	1.38	0.105	0.684	0.053
5	1.22	0.016	0.974	0.005	1.26	0.023	0.639	0.017	3.64	0.216	0.736	0.029	1.38	0.056	0.697	0.037
6	1.21	0.009	0.977	0.004	1.26	0.021	0.639	0.013	3.63	0.150	0.706	0.031	1.32	0.082	0.667	0.035
7	1.23	0.012	0.977	0.003	1.28	0.040	0.640	0.019	3.44	0.322	0.692	0.040	1.29	0.109	0.647	0.060
8	1.23	0.016	0.980	0.004	1.27	0.044	0.639	0.013	3.60	0.391	0.719	0.047	1.36	0.100	0.687	0.061
9	1.24	0.012	0.980	0.003	1.29	0.017	0.646	0.013	3.36	0.185	0.693	0.031	1.30	0.068	0.651	0.033
10	1.23	0.016	0.982	0.004	1.27	0.028	0.644	0.014	3.41	0.232	0.679	0.049	1.25	0.115	0.632	0.060
11	1.23	0.013	0.984	0.002	1.27	0.032	0.634	0.020	3.51	0.204	0.699	0.034	1.30	0.096	0.651	0.046
12	1.23	0.011	0.983	0.004	1.29	0.019	0.642	0.016	3.36	0.228	0.682	0.027	1.25	0.070	0.622	0.032
13	1.23	0.012	0.983	0.005	1.27	0.021	0.636	0.010	3.51	0.318	0.699	0.046	1.32	0.093	0.660	0.049
14	1.23	0.016	0.985	0.003	1.29	0.031	0.630	0.014	3.32	0.255	0.663	0.053	1.22	0.110	0.600	0.060
15	1.24	0.011	0.983	0.004	1.28	0.023	0.642	0.011	3.34	0.248	0.685	0.036	1.26	0.094	0.632	0.051
β liberal majority = 15																
0	1.16	0.012	0.925	0.008	1.35	0.045	0.672	0.022	4.44	0.109	0.902	0.026	1.67	0.079	0.833	0.033
1	1.17	0.009	0.940	0.007	1.42	0.039	0.717	0.022	4.61	0.152	0.914	0.014	1.73	0.087	0.872	0.019
2	1.19	0.013	0.953	0.007	1.53	0.030	0.757	0.020	4.66	0.299	0.926	0.020	1.77	0.052	0.880	0.022
3	1.21	0.017	0.967	0.007	1.58	0.042	0.799	0.014	4.77	0.308	0.941	0.021	1.83	0.075	0.921	0.026
4	1.22	0.012	0.978	0.003	1.68	0.049	0.830	0.015	4.75	0.224	0.951	0.011	1.88	0.049	0.930	0.017
5	1.23	0.011	0.985	0.003	1.71	0.029	0.854	0.013	4.81	0.176	0.968	0.008	1.92	0.029	0.961	0.007
6	1.24	0.008	0.988	0.002	1.74	0.034	0.875	0.008	4.80	0.132	0.973	0.003	1.92	0.045	0.968	0.008
7	1.23	0.009	0.993	0.002	1.76	0.055	0.883	0.015	4.99	0.156	0.972	0.011	1.92	0.071	0.964	0.014
8	1.25	0.013	0.993	0.002	1.78	0.044	0.887	0.012	4.80	0.198	0.973	0.010	1.95	0.050	0.968	0.012
9	1.24	0.011	0.995	0.001	1.79	0.034	0.900	0.018	4.91	0.170	0.976	0.006	1.94	0.038	0.972	0.010
10	1.25	0.011	0.995	0.001	1.78	0.037	0.887	0.015	4.83	0.155	0.979	0.007	1.97	0.049	0.978	0.007
11	1.25	0.018	0.995	0.002	1.79	0.059	0.900	0.014	4.82	0.301	0.974	0.011	1.94	0.067	0.973	0.012
12	1.25	0.010	0.996	0.001	1.79	0.029	0.899	0.014	4.82	0.172	0.979	0.011	1.95	0.040	0.978	0.011
13	1.25	0.018	0.996	0.001	1.78	0.053	0.903	0.013	4.83	0.274	0.972	0.008	1.92	0.046	0.971	0.008
14	1.24	0.007	0.997	0.001	1.81	0.047	0.901	0.012	5.01	0.136	0.980	0.009	1.97	0.025	0.977	0.009
15	1.25	0.018	0.997	0.001	1.81	0.027	0.906	0.009	4.92	0.277	0.979	0.010	1.96	0.045	0.981	0.012

Table 12: Referred to Fig. 11: focus on conservatives

β dom	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline (β ethnic liberal = 0)																
0	0.997	0.008	0.796	0.011	0.999	0.020	0.502	0.011	0.998	0.051	0.201	0.013	1.007	0.031	0.506	0.020
1	1.015	0.008	0.812	0.011	1.042	0.019	0.521	0.009	1.174	0.084	0.235	0.015	1.045	0.023	0.523	0.021
2	1.046	0.008	0.835	0.005	1.114	0.024	0.564	0.018	1.467	0.115	0.295	0.026	1.064	0.016	0.539	0.015
3	1.069	0.012	0.859	0.008	1.183	0.023	0.593	0.014	1.776	0.179	0.348	0.038	1.107	0.045	0.555	0.030
4	1.112	0.015	0.888	0.007	1.281	0.046	0.642	0.023	2.226	0.130	0.449	0.036	1.187	0.067	0.595	0.025
5	1.151	0.013	0.924	0.008	1.407	0.038	0.707	0.017	3.064	0.154	0.603	0.034	1.390	0.083	0.698	0.037
6	1.194	0.012	0.950	0.006	1.522	0.039	0.754	0.020	3.803	0.196	0.774	0.037	1.650	0.075	0.818	0.031
7	1.216	0.013	0.976	0.004	1.602	0.040	0.810	0.015	4.580	0.269	0.901	0.026	1.814	0.080	0.917	0.028
8	1.233	0.012	0.982	0.002	1.704	0.043	0.846	0.018	4.534	0.152	0.924	0.020	1.882	0.050	0.935	0.019
9	1.239	0.013	0.987	0.002	1.717	0.036	0.865	0.013	4.672	0.220	0.947	0.016	1.894	0.041	0.954	0.009
10	1.240	0.015	0.990	0.003	1.727	0.027	0.870	0.015	4.777	0.302	0.958	0.015	1.902	0.044	0.958	0.016
11	1.242	0.008	0.992	0.001	1.772	0.042	0.885	0.014	4.816	0.115	0.967	0.012	1.938	0.055	0.967	0.011
12	1.246	0.017	0.994	0.002	1.771	0.043	0.893	0.014	4.805	0.234	0.970	0.016	1.920	0.055	0.969	0.016
13	1.235	0.014	0.995	0.002	1.809	0.031	0.900	0.015	5.015	0.265	0.972	0.010	1.958	0.041	0.975	0.011
14	1.246	0.015	0.995	0.001	1.781	0.037	0.897	0.014	4.873	0.239	0.978	0.006	1.951	0.040	0.982	0.006
15	1.250	0.015	0.997	0.001	1.803	0.048	0.895	0.016	4.859	0.237	0.983	0.007	1.984	0.069	0.984	0.009
16	1.240	0.018	0.996	0.001	1.812	0.024	0.902	0.012	5.000	0.334	0.976	0.008	1.961	0.032	0.976	0.009
17	1.244	0.010	0.997	0.001	1.802	0.048	0.900	0.009	4.959	0.188	0.983	0.010	1.969	0.041	0.983	0.013
18	1.254	0.016	0.997	0.001	1.808	0.035	0.905	0.010	4.781	0.237	0.976	0.007	1.947	0.037	0.974	0.013
19	1.246	0.007	0.998	0.001	1.805	0.038	0.907	0.014	4.943	0.124	0.982	0.010	1.949	0.038	0.979	0.013
20	1.253	0.015	0.998	0.001	1.802	0.042	0.900	0.011	4.843	0.228	0.982	0.006	1.962	0.050	0.980	0.006
β value liberal majority = ethnic																
0	0.999	0.006	0.797	0.013	1.004	0.014	0.502	0.009	0.999	0.062	0.202	0.017	1.016	0.038	0.508	0.020
1	1.013	0.009	0.808	0.008	1.036	0.017	0.512	0.019	1.220	0.082	0.248	0.018	1.054	0.043	0.521	0.027
2	1.043	0.006	0.835	0.006	1.078	0.020	0.540	0.013	1.678	0.163	0.333	0.032	1.141	0.044	0.572	0.025
3	1.072	0.014	0.853	0.010	1.133	0.018	0.569	0.011	2.243	0.167	0.458	0.033	1.272	0.048	0.639	0.024
4	1.118	0.012	0.893	0.009	1.188	0.019	0.596	0.013	3.272	0.227	0.655	0.034	1.477	0.052	0.741	0.033
5	1.156	0.010	0.929	0.008	1.288	0.041	0.644	0.019	4.072	0.196	0.799	0.039	1.651	0.058	0.827	0.042
6	1.184	0.011	0.947	0.007	1.418	0.030	0.704	0.020	4.337	0.174	0.867	0.028	1.736	0.069	0.862	0.025
7	1.214	0.016	0.968	0.004	1.578	0.035	0.784	0.020	4.542	0.220	0.919	0.021	1.761	0.067	0.875	0.035
8	1.227	0.011	0.980	0.003	1.688	0.036	0.838	0.011	4.665	0.178	0.938	0.019	1.760	0.050	0.873	0.022
9	1.237	0.016	0.986	0.003	1.745	0.042	0.874	0.011	4.685	0.216	0.950	0.013	1.741	0.063	0.872	0.028
10	1.238	0.013	0.987	0.003	1.796	0.046	0.900	0.014	4.705	0.160	0.951	0.012	1.758	0.052	0.881	0.025
11	1.239	0.018	0.990	0.003	1.854	0.041	0.927	0.011	4.773	0.241	0.956	0.015	1.757	0.059	0.878	0.021
12	1.248	0.017	0.993	0.002	1.876	0.036	0.929	0.008	4.739	0.246	0.966	0.006	1.790	0.052	0.886	0.017
13	1.245	0.019	0.994	0.002	1.864	0.034	0.932	0.011	4.810	0.292	0.966	0.010	1.751	0.042	0.875	0.026
14	1.238	0.013	0.996	0.001	1.885	0.020	0.949	0.011	5.008	0.229	0.974	0.010	1.756	0.030	0.884	0.021
15	1.241	0.016	0.996	0.001	1.896	0.046	0.943	0.015	4.931	0.215	0.970	0.011	1.764	0.071	0.877	0.025
16	1.244	0.015	0.996	0.002	1.889	0.058	0.951	0.009	4.926	0.242	0.976	0.007	1.768	0.049	0.890	0.022
17	1.242	0.010	0.997	0.001	1.924	0.053	0.951	0.008	4.979	0.179	0.982	0.007	1.802	0.054	0.890	0.015
18	1.245	0.009	0.998	0.001	1.910	0.035	0.957	0.011	4.938	0.157	0.981	0.007	1.759	0.055	0.882	0.018
19	1.244	0.009	0.998	0.001	1.928	0.049	0.956	0.005	4.962	0.170	0.981	0.005	1.788	0.039	0.886	0.013
20	1.252	0.010	0.998	0.001	1.932	0.032	0.961	0.007	4.849	0.179	0.983	0.004	1.791	0.039	0.891	0.024
β value liberal minority = ethnic																
0	1.001	0.006	0.799	0.009	0.996	0.012	0.498	0.013	0.958	0.059	0.194	0.015	0.983	0.028	0.492	0.020
1	1.024	0.010	0.816	0.011	1.042	0.015	0.527	0.019	1.224	0.097	0.249	0.025	1.002	0.036	0.506	0.019
2	1.053	0.007	0.844	0.010	1.127	0.022	0.557	0.016	1.479	0.130	0.293	0.027	1.045	0.027	0.517	0.022
3	1.093	0.011	0.874	0.008	1.205	0.039	0.606	0.021	1.791	0.117	0.358	0.028	1.021	0.046	0.514	0.027
4	1.138	0.010	0.911	0.007	1.305	0.032	0.658	0.012	2.446	0.253	0.486	0.035	1.090	0.040	0.550	0.028
5	1.186	0.012	0.947	0.008	1.405	0.035	0.713	0.008	3.100	0.276	0.622	0.047	1.164	0.067	0.591	0.042
6	1.207	0.012	0.968	0.005	1.488	0.026	0.754	0.012	3.690	0.166	0.731	0.032	1.298	0.055	0.657	0.028
7	1.221	0.014	0.982	0.004	1.563	0.033	0.783	0.020	4.171	0.193	0.816	0.038	1.380	0.062	0.691	0.024
8	1.234	0.010	0.989	0.003	1.607	0.013	0.804	0.013	4.366	0.172	0.864	0.019	1.462	0.052	0.731	0.025
9	1.238	0.018	0.994	0.001	1.657	0.022	0.838	0.015	4.547	0.248	0.894	0.017	1.521	0.080	0.768	0.037
10	1.242	0.014	0.996	0.002	1.679	0.056	0.843	0.021	4.653	0.263	0.920	0.009	1.589	0.051	0.798	0.024
11	1.257	0.016	0.997	0.001	1.740	0.054	0.863	0.018	4.480	0.247	0.926	0.018	1.669	0.077	0.828	0.036
12	1.251	0.014	0.998	0.001	1.749	0.047	0.856	0.018	4.677	0.197	0.945	0.015	1.746	0.079	0.854	0.028
13	1.241	0.007	0.998	0.001	1.738	0.045	0.871	0.019	4.791	0.153	0.939	0.015	1.735	0.049	0.869	0.023
14	1.251	0.017	0.999	0.001	1.749	0.041	0.869	0.016	4.745	0.312	0.952	0.014	1.802	0.054	0.896	0.024
15	1.249	0.019	0.999	0.001	1.732	0.026	0.878	0.013	4.769	0.287	0.952	0.014	1.756	0.078	0.890	0.034
16	1.243	0.011	0.998	0.000	1.738	0.040	0.873	0.007	4.845	0.173	0.953	0.005	1.820	0.052	0.915	0.024
17	1.249	0.014	0.999	0.001	1.743	0.035	0.868	0.009	4.780	0.217	0.955	0.010	1.833	0.057	0.912	0.018
18	1.242	0.012	0.998	0.001	1.757	0.052	0.877	0.008	4.839	0.211	0.947	0.015	1.841	0.056	0.919	0.023
19	1.247	0.019	0.999	0.001	1.748	0.043	0.870	0.018	4.814	0.308	0.955	0.009	1.856	0.032	0.924	0.020
20	1.249	0.021	1.000	0.000	1.787	0.043	0.879	0.011	4.810	0.309	0.957	0.014	1.888	0.072	0.928	0.020

Table 13: Referred to Fig. 11: focus on liberals

β dom	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline (β ethnic liberal = 0)																
0	1.000	0.005	0.799	0.011	1.003	0.019	0.499	0.015	0.934	0.070	0.188	0.016	0.99	0.041	0.493	0.023
1	1.008	0.008	0.806	0.012	1.052	0.008	0.526	0.013	1.081	0.086	0.217	0.025	1.06	0.045	0.532	0.028
2	1.002	0.008	0.801	0.008	1.122	0.020	0.554	0.014	1.162	0.066	0.234	0.014	1.18	0.032	0.580	0.019
3	1.000	0.004	0.804	0.009	1.193	0.019	0.595	0.014	1.194	0.064	0.234	0.016	1.26	0.042	0.626	0.022
4	0.991	0.010	0.791	0.012	1.279	0.033	0.637	0.023	1.253	0.095	0.252	0.020	1.41	0.039	0.704	0.019
5	0.990	0.008	0.795	0.010	1.420	0.030	0.706	0.019	1.188	0.089	0.234	0.016	1.57	0.052	0.783	0.025
6	1.004	0.012	0.799	0.013	1.537	0.044	0.775	0.018	1.131	0.069	0.231	0.018	1.70	0.031	0.858	0.017
7	1.009	0.013	0.810	0.016	1.671	0.035	0.826	0.015	1.067	0.094	0.211	0.022	1.86	0.040	0.921	0.012
8	1.003	0.010	0.798	0.011	1.722	0.048	0.866	0.014	1.039	0.092	0.212	0.020	1.88	0.045	0.943	0.008
9	1.007	0.015	0.802	0.014	1.773	0.037	0.879	0.012	1.032	0.104	0.210	0.025	1.93	0.051	0.959	0.008
10	1.007	0.011	0.804	0.012	1.791	0.049	0.888	0.011	0.957	0.102	0.192	0.019	1.95	0.042	0.966	0.009
11	0.998	0.014	0.798	0.008	1.802	0.040	0.901	0.009	0.985	0.058	0.198	0.011	1.95	0.045	0.973	0.006
12	0.996	0.013	0.795	0.015	1.829	0.037	0.906	0.015	1.007	0.081	0.204	0.023	1.97	0.039	0.977	0.009
13	0.997	0.013	0.803	0.015	1.822	0.039	0.915	0.011	1.027	0.067	0.200	0.019	1.96	0.034	0.984	0.005
14	0.998	0.010	0.797	0.013	1.837	0.046	0.912	0.012	0.994	0.064	0.200	0.015	1.99	0.043	0.986	0.003
15	1.005	0.005	0.801	0.010	1.820	0.060	0.915	0.009	0.965	0.084	0.196	0.021	1.97	0.063	0.989	0.002
16	1.003	0.013	0.807	0.016	1.832	0.045	0.919	0.009	1.001	0.069	0.196	0.020	1.97	0.038	0.989	0.002
17	1.002	0.011	0.803	0.011	1.835	0.039	0.917	0.006	0.962	0.068	0.191	0.016	1.98	0.049	0.992	0.003
18	1.001	0.013	0.797	0.016	1.842	0.042	0.919	0.006	0.990	0.078	0.203	0.023	1.98	0.045	0.989	0.004
19	1.001	0.010	0.802	0.009	1.852	0.043	0.921	0.010	1.040	0.079	0.207	0.014	1.99	0.039	0.992	0.004
20	0.989	0.011	0.788	0.010	1.828	0.038	0.914	0.009	1.033	0.067	0.210	0.018	1.99	0.050	0.994	0.003
β value liberal majority = ethnic																
0	1.001	0.006	0.799	0.011	1.006	0.018	0.502	0.011	0.985	0.079	0.200	0.027	1.01	0.025	0.504	0.014
1	1.019	0.007	0.812	0.010	1.054	0.020	0.533	0.013	1.129	0.074	0.229	0.017	1.03	0.031	0.521	0.016
2	1.040	0.011	0.833	0.010	1.118	0.012	0.558	0.013	1.335	0.078	0.265	0.020	1.11	0.064	0.555	0.032
3	1.057	0.011	0.841	0.011	1.199	0.020	0.597	0.014	1.420	0.109	0.290	0.022	1.19	0.040	0.593	0.024
4	1.082	0.011	0.865	0.010	1.288	0.023	0.641	0.015	1.536	0.101	0.308	0.018	1.29	0.054	0.644	0.023
5	1.094	0.014	0.880	0.010	1.390	0.039	0.694	0.016	1.733	0.058	0.340	0.016	1.45	0.052	0.724	0.018
6	1.098	0.010	0.878	0.009	1.497	0.046	0.753	0.013	1.787	0.211	0.357	0.038	1.55	0.064	0.779	0.024
7	1.102	0.014	0.879	0.010	1.623	0.045	0.817	0.011	2.037	0.193	0.413	0.037	1.66	0.065	0.838	0.020
8	1.102	0.011	0.880	0.009	1.707	0.031	0.860	0.012	2.266	0.115	0.456	0.028	1.74	0.051	0.873	0.022
9	1.104	0.014	0.880	0.012	1.786	0.050	0.891	0.007	2.258	0.181	0.458	0.039	1.76	0.051	0.880	0.011
10	1.106	0.010	0.882	0.004	1.830	0.039	0.913	0.014	2.295	0.159	0.464	0.021	1.79	0.047	0.894	0.013
11	1.106	0.017	0.884	0.010	1.873	0.047	0.936	0.009	2.342	0.242	0.469	0.047	1.80	0.035	0.901	0.016
12	1.115	0.011	0.887	0.009	1.860	0.041	0.938	0.007	2.467	0.118	0.503	0.026	1.81	0.037	0.915	0.010
13	1.112	0.014	0.888	0.007	1.881	0.033	0.941	0.008	2.542	0.099	0.512	0.030	1.82	0.047	0.910	0.014
14	1.110	0.008	0.894	0.008	1.924	0.045	0.955	0.009	2.670	0.147	0.520	0.029	1.85	0.053	0.920	0.014
15	1.112	0.012	0.893	0.008	1.892	0.061	0.950	0.011	2.597	0.164	0.511	0.028	1.82	0.051	0.915	0.011
16	1.117	0.008	0.895	0.007	1.928	0.054	0.956	0.010	2.607	0.147	0.517	0.028	1.86	0.073	0.921	0.014
17	1.122	0.011	0.900	0.007	1.899	0.032	0.960	0.007	2.659	0.129	0.525	0.028	1.82	0.034	0.920	0.013
18	1.118	0.006	0.896	0.008	1.931	0.037	0.962	0.009	2.682	0.139	0.533	0.019	1.84	0.029	0.918	0.008
19	1.124	0.009	0.901	0.007	1.911	0.053	0.962	0.004	2.665	0.161	0.527	0.032	1.82	0.055	0.917	0.010
20	1.123	0.013	0.895	0.009	1.925	0.016	0.967	0.005	2.610	0.113	0.530	0.029	1.84	0.039	0.925	0.012
β value liberal minority = ethnic																
0	0.998	0.008	0.796	0.008	0.988	0.026	0.494	0.023	0.999	0.065	0.202	0.016	1.00	0.032	0.501	0.024
1	1.005	0.007	0.801	0.016	1.045	0.020	0.517	0.018	1.219	0.053	0.247	0.011	1.08	0.040	0.535	0.027
2	1.008	0.012	0.808	0.009	1.112	0.013	0.562	0.012	1.410	0.111	0.279	0.026	1.19	0.048	0.603	0.027
3	1.007	0.010	0.806	0.011	1.185	0.028	0.589	0.014	1.726	0.060	0.346	0.021	1.32	0.039	0.658	0.025
4	1.021	0.012	0.817	0.015	1.284	0.023	0.636	0.015	2.101	0.170	0.419	0.031	1.44	0.041	0.714	0.015
5	1.030	0.015	0.823	0.013	1.393	0.025	0.686	0.009	2.307	0.089	0.464	0.023	1.55	0.039	0.762	0.028
6	1.049	0.014	0.841	0.008	1.495	0.028	0.738	0.010	2.488	0.144	0.493	0.032	1.62	0.048	0.800	0.023
7	1.063	0.013	0.855	0.010	1.560	0.044	0.778	0.014	2.749	0.162	0.537	0.019	1.63	0.060	0.814	0.023
8	1.082	0.008	0.867	0.006	1.612	0.037	0.805	0.008	2.856	0.066	0.566	0.023	1.66	0.039	0.832	0.019
9	1.088	0.013	0.874	0.007	1.691	0.041	0.836	0.010	2.976	0.121	0.586	0.022	1.73	0.045	0.857	0.022
10	1.101	0.013	0.882	0.006	1.707	0.042	0.849	0.016	3.009	0.189	0.595	0.030	1.74	0.066	0.865	0.025
11	1.109	0.010	0.879	0.013	1.730	0.046	0.871	0.018	2.949	0.165	0.609	0.017	1.78	0.061	0.898	0.021
12	1.114	0.009	0.889	0.015	1.710	0.046	0.872	0.013	3.116	0.195	0.629	0.021	1.79	0.053	0.913	0.017
13	1.106	0.012	0.889	0.009	1.760	0.026	0.878	0.016	3.127	0.163	0.613	0.030	1.85	0.053	0.922	0.025
14	1.110	0.011	0.886	0.011	1.755	0.043	0.882	0.012	3.042	0.232	0.611	0.038	1.87	0.059	0.942	0.018
15	1.107	0.014	0.885	0.009	1.800	0.032	0.887	0.011	2.996	0.198	0.598	0.022	1.90	0.037	0.935	0.022
16	1.110	0.009	0.892	0.008	1.782	0.038	0.886	0.007	3.118	0.160	0.613	0.024	1.93	0.060	0.958	0.017
17	1.106	0.007	0.885	0.012	1.759	0.037	0.883	0.008	2.998	0.163	0.599	0.018	1.91	0.031	0.958	0.011
18	1.102	0.016	0.886	0.011	1.778	0.038	0.889	0.010	3.055	0.112	0.598	0.018	1.94	0.058	0.969	0.011
19	1.110	0.018	0.889	0.012	1.767	0.038	0.887	0.015	3.066	0.195	0.609	0.034	1.93	0.051	0.967	0.014
20	1.114	0.019	0.891	0.016	1.766	0.047	0.897	0.009	3.144	0.245	0.625	0.032	1.92	0.056	0.974	0.009

Table 14: Referred to Fig: 12, 50% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	2.02	0.039	0.991	0.002	1.228	0.021	0.860	0.016	1.95	0.036	0.991	0.002	1.416	0.021	0.992	0.002
20	1.97	0.027	0.991	0.004	1.397	0.042	0.903	0.017	2.00	0.026	0.993	0.003	1.533	0.025	0.991	0.003
30	2.00	0.043	0.990	0.004	1.547	0.032	0.936	0.013	1.97	0.041	0.994	0.002	1.636	0.024	0.989	0.004
40	1.97	0.059	0.992	0.003	1.736	0.025	0.958	0.016	2.00	0.056	0.994	0.002	1.787	0.027	0.985	0.004
50	2.00	0.052	0.992	0.004	1.952	0.048	0.973	0.011	1.97	0.054	0.992	0.002	1.946	0.048	0.970	0.005
60	2.00	0.048	0.994	0.002	2.196	0.043	0.980	0.004	1.97	0.045	0.991	0.004	2.124	0.058	0.948	0.019
70	1.97	0.036	0.992	0.004	2.454	0.081	0.980	0.007	1.98	0.048	0.981	0.008	2.286	0.099	0.912	0.022
80	1.97	0.046	0.991	0.005	2.792	0.049	0.980	0.008	1.95	0.045	0.968	0.013	2.399	0.095	0.842	0.038
90	2.02	0.035	0.989	0.003	3.312	0.100	0.976	0.007	1.84	0.069	0.936	0.021	2.324	0.222	0.686	0.066
β liberal majority = 1																
10	1.95	0.049	0.980	0.005	0.942	0.025	0.657	0.022	1.83	0.048	0.910	0.011	1.292	0.023	0.902	0.012
20	1.92	0.061	0.967	0.007	1.108	0.030	0.722	0.021	1.77	0.078	0.872	0.010	1.285	0.032	0.837	0.017
30	1.89	0.049	0.959	0.007	1.250	0.038	0.750	0.028	1.71	0.037	0.845	0.012	1.303	0.020	0.781	0.013
40	1.90	0.045	0.953	0.007	1.399	0.051	0.768	0.019	1.65	0.038	0.821	0.013	1.292	0.030	0.710	0.020
50	1.92	0.042	0.953	0.007	1.581	0.042	0.795	0.019	1.60	0.023	0.804	0.010	1.296	0.044	0.651	0.018
60	1.92	0.031	0.963	0.008	1.795	0.034	0.814	0.016	1.57	0.042	0.782	0.016	1.269	0.042	0.575	0.020
70	1.91	0.043	0.964	0.006	2.032	0.073	0.809	0.018	1.51	0.024	0.748	0.018	1.200	0.064	0.478	0.030
80	1.97	0.032	0.973	0.006	2.369	0.053	0.820	0.014	1.40	0.042	0.709	0.020	1.009	0.097	0.349	0.034
90	1.96	0.037	0.980	0.005	2.764	0.111	0.815	0.021	1.29	0.089	0.646	0.041	0.702	0.143	0.207	0.044
β liberal minority = 1																
10	1.89	0.072	0.942	0.013	1.088	0.019	0.768	0.015	1.95	0.056	0.974	0.003	1.342	0.020	0.947	0.006
20	1.80	0.053	0.908	0.009	1.108	0.018	0.715	0.017	1.96	0.051	0.970	0.004	1.421	0.019	0.916	0.009
30	1.71	0.038	0.871	0.013	1.130	0.034	0.674	0.024	1.97	0.030	0.967	0.005	1.483	0.033	0.885	0.013
40	1.67	0.036	0.828	0.014	1.197	0.040	0.652	0.018	1.91	0.033	0.963	0.006	1.542	0.032	0.840	0.012
50	1.59	0.039	0.800	0.007	1.296	0.053	0.645	0.018	1.91	0.043	0.951	0.012	1.578	0.028	0.787	0.024
60	1.56	0.029	0.779	0.014	1.394	0.044	0.633	0.016	1.88	0.039	0.939	0.008	1.599	0.057	0.727	0.019
70	1.50	0.052	0.752	0.021	1.564	0.046	0.627	0.023	1.86	0.070	0.923	0.015	1.565	0.063	0.627	0.023
80	1.46	0.044	0.731	0.017	1.777	0.041	0.618	0.026	1.79	0.044	0.895	0.013	1.455	0.078	0.506	0.028
90	1.40	0.043	0.704	0.018	1.956	0.067	0.593	0.025	1.71	0.064	0.851	0.030	0.995	0.098	0.301	0.022

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.682	0.035	0.827	0.012	2.94	0.122	0.880	0.012	0.364	0.047	0.185	0.022	3.24	0.152	0.970	0.011
20	1.426	0.035	0.719	0.019	2.60	0.064	0.920	0.013	0.562	0.037	0.279	0.017	2.76	0.087	0.976	0.005
30	1.272	0.037	0.630	0.018	2.40	0.050	0.950	0.009	0.746	0.042	0.377	0.023	2.47	0.058	0.977	0.007
40	1.125	0.035	0.567	0.022	2.16	0.059	0.967	0.010	0.904	0.032	0.448	0.017	2.19	0.053	0.982	0.005
50	1.005	0.013	0.499	0.015	1.95	0.043	0.979	0.007	1.018	0.021	0.513	0.016	1.95	0.047	0.977	0.003
60	0.914	0.032	0.455	0.025	1.78	0.026	0.984	0.003	1.111	0.030	0.559	0.022	1.76	0.030	0.974	0.008
70	0.846	0.026	0.426	0.017	1.64	0.038	0.983	0.003	1.172	0.024	0.582	0.015	1.62	0.038	0.973	0.005
80	0.763	0.028	0.384	0.015	1.51	0.019	0.982	0.005	1.237	0.017	0.613	0.014	1.50	0.021	0.973	0.006
90	0.730	0.045	0.358	0.025	1.39	0.025	0.981	0.004	1.285	0.020	0.654	0.012	1.39	0.021	0.977	0.005
β liberal majority = 1																
10	1.443	0.038	0.726	0.017	1.69	0.083	0.511	0.018	0.707	0.068	0.351	0.033	2.73	0.072	0.824	0.032
20	1.224	0.042	0.619	0.035	1.52	0.046	0.531	0.016	1.011	0.062	0.500	0.041	2.23	0.123	0.776	0.041
30	1.111	0.027	0.563	0.017	1.42	0.062	0.569	0.017	1.148	0.037	0.566	0.023	1.95	0.054	0.781	0.014
40	1.036	0.036	0.521	0.022	1.32	0.024	0.597	0.016	1.260	0.049	0.627	0.027	1.75	0.031	0.786	0.017
50	0.974	0.034	0.485	0.016	1.30	0.034	0.645	0.013	1.284	0.018	0.645	0.020	1.62	0.039	0.804	0.019
60	0.918	0.021	0.461	0.013	1.24	0.027	0.677	0.011	1.350	0.029	0.672	0.016	1.54	0.025	0.841	0.009
70	0.911	0.031	0.461	0.018	1.18	0.024	0.711	0.019	1.399	0.032	0.691	0.011	1.45	0.021	0.870	0.010
80	0.879	0.018	0.434	0.009	1.14	0.013	0.743	0.008	1.415	0.027	0.715	0.011	1.39	0.017	0.910	0.005
90	0.881	0.028	0.440	0.011	1.11	0.027	0.783	0.013	1.434	0.038	0.717	0.011	1.35	0.033	0.951	0.006
β liberal minority = 1																
10	1.799	0.058	0.897	0.010	2.67	0.113	0.786	0.015	0.809	0.059	0.406	0.039	1.51	0.136	0.444	0.043
20	1.624	0.039	0.819	0.012	2.19	0.058	0.779	0.018	0.810	0.049	0.401	0.025	1.55	0.106	0.551	0.036
30	1.509	0.043	0.768	0.024	1.92	0.056	0.775	0.014	0.882	0.061	0.433	0.032	1.44	0.071	0.582	0.032
40	1.400	0.038	0.693	0.015	1.74	0.041	0.794	0.012	0.920	0.037	0.465	0.016	1.35	0.026	0.615	0.015
50	1.299	0.047	0.653	0.026	1.62	0.049	0.812	0.019	0.958	0.041	0.477	0.027	1.26	0.024	0.631	0.014
60	1.207	0.030	0.603	0.017	1.49	0.030	0.814	0.014	1.015	0.027	0.509	0.017	1.22	0.022	0.666	0.016
70	1.116	0.031	0.560	0.015	1.40	0.029	0.838	0.012	1.065	0.023	0.530	0.022	1.17	0.027	0.699	0.012
80	1.020	0.030	0.510	0.020	1.31	0.027	0.856	0.010	1.087	0.028	0.543	0.020	1.13	0.023	0.737	0.007
90	0.970	0.021	0.487	0.018	1.24	0.021	0.865	0.008	1.112	0.022	0.554	0.014	1.11	0.014	0.771	0.013

Table 15: Referred to Fig: 12, 60% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.66	0.021	0.994	0.002	1.315	0.026	0.867	0.014	2.46	0.048	0.986	0.002	1.499	0.021	0.987	0.003
20	1.64	0.018	0.992	0.003	1.430	0.040	0.884	0.023	2.50	0.052	0.988	0.004	1.599	0.041	0.988	0.004
30	1.66	0.027	0.992	0.002	1.592	0.034	0.921	0.015	2.46	0.054	0.991	0.005	1.708	0.037	0.988	0.007
40	1.66	0.029	0.993	0.002	1.722	0.045	0.928	0.014	2.48	0.061	0.993	0.002	1.832	0.037	0.988	0.002
50	1.67	0.023	0.994	0.002	1.909	0.035	0.954	0.007	2.44	0.056	0.991	0.003	1.961	0.039	0.979	0.008
60	1.66	0.031	0.992	0.002	2.118	0.047	0.964	0.009	2.45	0.066	0.987	0.003	2.124	0.069	0.967	0.009
70	1.67	0.027	0.995	0.002	2.315	0.060	0.968	0.007	2.44	0.055	0.982	0.008	2.278	0.085	0.953	0.016
80	1.65	0.032	0.993	0.003	2.561	0.054	0.973	0.007	2.44	0.074	0.968	0.015	2.422	0.093	0.920	0.024
90	1.65	0.033	0.993	0.001	2.877	0.117	0.973	0.004	2.33	0.092	0.923	0.015	2.320	0.187	0.786	0.073
β liberal majority = 1																
10	1.66	0.039	0.990	0.002	0.945	0.033	0.625	0.026	2.26	0.080	0.912	0.010	1.370	0.030	0.907	0.012
20	1.61	0.026	0.977	0.003	1.087	0.032	0.671	0.015	2.18	0.054	0.861	0.010	1.366	0.028	0.843	0.012
30	1.61	0.032	0.971	0.006	1.214	0.030	0.700	0.019	2.06	0.064	0.820	0.006	1.341	0.040	0.772	0.014
40	1.61	0.024	0.967	0.005	1.379	0.023	0.741	0.012	1.96	0.058	0.782	0.016	1.298	0.039	0.698	0.023
50	1.60	0.021	0.964	0.003	1.470	0.021	0.746	0.013	1.91	0.056	0.757	0.015	1.250	0.039	0.634	0.021
60	1.62	0.033	0.963	0.005	1.632	0.046	0.759	0.018	1.79	0.048	0.722	0.018	1.190	0.049	0.554	0.027
70	1.63	0.037	0.970	0.006	1.861	0.052	0.779	0.012	1.70	0.059	0.683	0.015	1.078	0.055	0.452	0.018
80	1.63	0.031	0.977	0.005	2.064	0.071	0.788	0.024	1.59	0.059	0.637	0.027	0.916	0.112	0.350	0.042
90	1.64	0.029	0.985	0.004	2.275	0.067	0.771	0.021	1.40	0.106	0.562	0.051	0.594	0.100	0.202	0.035
β liberal minority = 1																
10	1.60	0.028	0.963	0.007	1.188	0.024	0.777	0.015	2.43	0.070	0.966	0.004	1.449	0.017	0.947	0.007
20	1.54	0.035	0.929	0.007	1.181	0.033	0.727	0.022	2.42	0.078	0.960	0.008	1.491	0.031	0.918	0.007
30	1.51	0.016	0.909	0.010	1.232	0.025	0.706	0.014	2.43	0.070	0.961	0.010	1.577	0.034	0.904	0.013
40	1.48	0.029	0.877	0.016	1.288	0.045	0.697	0.022	2.35	0.080	0.955	0.007	1.595	0.041	0.864	0.015
50	1.41	0.026	0.856	0.015	1.331	0.046	0.675	0.016	2.41	0.092	0.947	0.010	1.657	0.035	0.841	0.019
60	1.38	0.023	0.828	0.013	1.431	0.024	0.661	0.023	2.34	0.054	0.931	0.011	1.685	0.046	0.778	0.021
70	1.35	0.027	0.811	0.011	1.537	0.024	0.653	0.014	2.27	0.092	0.911	0.017	1.647	0.051	0.700	0.024
80	1.31	0.013	0.788	0.011	1.685	0.051	0.638	0.013	2.16	0.083	0.859	0.014	1.476	0.141	0.559	0.054
90	1.27	0.014	0.761	0.013	1.818	0.066	0.613	0.018	1.95	0.071	0.776	0.027	1.059	0.160	0.357	0.051

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.457	0.024	0.873	0.016	2.58	0.054	0.879	0.013	0.316	0.062	0.127	0.025	2.86	0.060	0.976	0.008
20	1.322	0.018	0.798	0.019	2.37	0.092	0.902	0.013	0.546	0.059	0.216	0.024	2.56	0.092	0.975	0.008
30	1.188	0.032	0.710	0.014	2.22	0.059	0.936	0.009	0.731	0.040	0.294	0.016	2.33	0.050	0.979	0.008
40	1.105	0.019	0.662	0.011	2.05	0.045	0.942	0.012	0.850	0.038	0.341	0.021	2.14	0.056	0.984	0.004
50	1.013	0.027	0.601	0.013	1.93	0.037	0.964	0.005	1.010	0.032	0.410	0.013	1.97	0.041	0.984	0.006
60	0.936	0.019	0.559	0.017	1.79	0.045	0.974	0.006	1.120	0.041	0.451	0.014	1.81	0.033	0.983	0.004
70	0.872	0.029	0.521	0.023	1.68	0.039	0.974	0.006	1.216	0.026	0.490	0.017	1.70	0.032	0.985	0.005
80	0.803	0.023	0.485	0.018	1.58	0.025	0.979	0.004	1.293	0.032	0.512	0.011	1.59	0.022	0.987	0.003
90	0.766	0.019	0.462	0.015	1.48	0.029	0.978	0.002	1.374	0.023	0.546	0.014	1.49	0.032	0.985	0.004
β liberal majority = 1																
10	1.347	0.042	0.802	0.021	1.55	0.035	0.525	0.022	0.728	0.141	0.295	0.060	2.61	0.099	0.882	0.033
20	1.175	0.021	0.711	0.014	1.42	0.035	0.544	0.021	1.038	0.075	0.410	0.031	2.22	0.061	0.849	0.024
30	1.074	0.020	0.647	0.017	1.33	0.027	0.562	0.017	1.220	0.063	0.485	0.025	1.94	0.050	0.823	0.023
40	1.003	0.022	0.603	0.014	1.29	0.028	0.598	0.010	1.355	0.021	0.540	0.014	1.78	0.041	0.823	0.017
50	0.969	0.022	0.585	0.015	1.24	0.033	0.610	0.015	1.429	0.065	0.566	0.027	1.67	0.038	0.822	0.010
60	0.936	0.028	0.558	0.017	1.20	0.011	0.643	0.006	1.497	0.036	0.605	0.018	1.59	0.026	0.850	0.011
70	0.911	0.019	0.544	0.010	1.18	0.019	0.687	0.012	1.548	0.026	0.624	0.019	1.52	0.024	0.880	0.011
80	0.879	0.027	0.527	0.016	1.17	0.029	0.722	0.015	1.558	0.036	0.625	0.012	1.47	0.026	0.910	0.006
90	0.894	0.025	0.536	0.020	1.12	0.023	0.742	0.014	1.616	0.028	0.646	0.012	1.44	0.017	0.951	0.005
β liberal minority = 1																
10	1.535	0.033	0.923	0.006	2.32	0.053	0.802	0.009	0.871	0.134	0.347	0.056	1.46	0.105	0.504	0.035
20	1.432	0.039	0.862	0.016	2.02	0.072	0.778	0.015	0.841	0.091	0.334	0.036	1.45	0.081	0.556	0.038
30	1.342	0.026	0.810	0.019	1.84	0.049	0.784	0.010	0.884	0.072	0.350	0.028	1.48	0.077	0.631	0.031
40	1.284	0.029	0.762	0.012	1.73	0.044	0.794	0.016	0.938	0.060	0.381	0.019	1.37	0.043	0.629	0.020
50	1.214	0.032	0.735	0.019	1.61	0.023	0.792	0.016	0.985	0.046	0.388	0.020	1.33	0.041	0.653	0.018
60	1.137	0.020	0.684	0.015	1.50	0.047	0.807	0.008	1.035	0.029	0.413	0.017	1.25	0.026	0.675	0.012
70	1.086	0.023	0.650	0.022	1.41	0.032	0.813	0.013	1.097	0.035	0.440	0.018	1.21	0.022	0.696	0.010
80	1.011	0.018	0.610	0.020	1.33	0.023	0.824	0.014	1.130	0.023	0.448	0.013	1.17	0.019	0.726	0.013
90	0.959	0.022	0.577	0.023	1.26	0.021	0.836	0.015	1.146	0.036	0.457	0.011	1.14	0.016	0.756	0.012

Table 16: Referred to Fig: 12, 70% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.42	0.017	0.994	0.002	1.407	0.019	0.865	0.012	3.26	0.084	0.979	0.004	1.598	0.027	0.983	0.004
20	1.42	0.018	0.995	0.002	1.489	0.030	0.875	0.009	3.27	0.112	0.979	0.005	1.666	0.033	0.980	0.007
30	1.42	0.019	0.995	0.001	1.599	0.035	0.891	0.012	3.28	0.126	0.985	0.007	1.770	0.054	0.986	0.008
40	1.43	0.020	0.996	0.002	1.727	0.049	0.907	0.011	3.25	0.114	0.988	0.006	1.874	0.045	0.984	0.007
50	1.41	0.032	0.995	0.002	1.841	0.031	0.921	0.007	3.37	0.214	0.983	0.008	1.955	0.034	0.979	0.010
60	1.42	0.021	0.995	0.002	2.008	0.037	0.940	0.013	3.28	0.115	0.985	0.007	2.092	0.041	0.979	0.010
70	1.41	0.030	0.995	0.001	2.161	0.077	0.945	0.009	3.32	0.157	0.979	0.005	2.214	0.102	0.968	0.009
80	1.42	0.021	0.995	0.001	2.307	0.048	0.955	0.006	3.24	0.100	0.975	0.007	2.286	0.082	0.946	0.019
90	1.42	0.022	0.995	0.002	2.522	0.067	0.960	0.008	3.11	0.120	0.933	0.023	2.322	0.120	0.883	0.030
β liberal majority = 1																
10	1.42	0.024	0.993	0.002	0.952	0.020	0.592	0.016	3.01	0.139	0.904	0.010	1.451	0.031	0.902	0.012
20	1.41	0.020	0.989	0.003	1.066	0.039	0.627	0.020	2.92	0.081	0.878	0.017	1.475	0.030	0.868	0.018
30	1.40	0.025	0.984	0.003	1.157	0.026	0.647	0.021	2.79	0.118	0.828	0.021	1.438	0.041	0.803	0.026
40	1.39	0.012	0.978	0.004	1.278	0.040	0.681	0.018	2.55	0.065	0.761	0.020	1.338	0.044	0.713	0.024
50	1.39	0.023	0.974	0.005	1.386	0.042	0.688	0.015	2.39	0.101	0.712	0.017	1.262	0.058	0.627	0.027
60	1.39	0.028	0.975	0.005	1.495	0.054	0.706	0.021	2.18	0.141	0.652	0.030	1.109	0.098	0.524	0.055
70	1.40	0.008	0.976	0.004	1.649	0.029	0.710	0.015	2.00	0.089	0.602	0.027	0.962	0.080	0.414	0.034
80	1.41	0.020	0.978	0.003	1.775	0.045	0.726	0.013	1.81	0.105	0.552	0.037	0.779	0.072	0.319	0.034
90	1.42	0.029	0.985	0.003	1.903	0.081	0.717	0.023	1.63	0.103	0.493	0.021	0.499	0.115	0.188	0.043
β liberal minority = 1																
10	1.39	0.025	0.974	0.004	1.280	0.015	0.797	0.017	3.18	0.133	0.949	0.008	1.503	0.026	0.935	0.012
20	1.36	0.018	0.952	0.004	1.272	0.031	0.746	0.014	3.14	0.103	0.942	0.011	1.549	0.036	0.909	0.014
30	1.34	0.019	0.936	0.009	1.286	0.017	0.721	0.017	3.15	0.090	0.947	0.007	1.617	0.044	0.906	0.012
40	1.31	0.020	0.916	0.007	1.335	0.030	0.705	0.017	3.16	0.139	0.944	0.014	1.665	0.041	0.879	0.017
50	1.28	0.017	0.896	0.007	1.377	0.033	0.695	0.012	3.09	0.087	0.926	0.011	1.688	0.063	0.851	0.019
60	1.25	0.016	0.878	0.013	1.456	0.058	0.681	0.022	3.12	0.105	0.929	0.023	1.776	0.048	0.831	0.030
70	1.23	0.013	0.863	0.008	1.531	0.045	0.676	0.020	2.92	0.073	0.878	0.020	1.606	0.099	0.709	0.037
80	1.21	0.015	0.847	0.009	1.635	0.043	0.665	0.019	2.79	0.120	0.833	0.033	1.530	0.105	0.623	0.046
90	1.18	0.018	0.827	0.009	1.698	0.043	0.644	0.016	2.33	0.103	0.702	0.037	1.020	0.175	0.387	0.067

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.300	0.020	0.910	0.011	2.28	0.058	0.879	0.007	0.287	0.050	0.086	0.016	2.52	0.052	0.972	0.011
20	1.211	0.011	0.848	0.012	2.16	0.052	0.889	0.009	0.534	0.069	0.161	0.024	2.38	0.077	0.978	0.011
30	1.134	0.022	0.793	0.016	2.05	0.070	0.909	0.007	0.675	0.058	0.203	0.020	2.22	0.069	0.982	0.006
40	1.067	0.021	0.742	0.018	1.95	0.041	0.924	0.011	0.862	0.050	0.263	0.021	2.08	0.051	0.985	0.006
50	1.010	0.015	0.714	0.012	1.87	0.030	0.935	0.006	1.006	0.050	0.294	0.018	1.98	0.035	0.987	0.005
60	0.944	0.014	0.660	0.009	1.79	0.031	0.952	0.011	1.151	0.039	0.345	0.013	1.86	0.022	0.990	0.003
70	0.903	0.015	0.636	0.015	1.70	0.056	0.955	0.006	1.284	0.047	0.380	0.025	1.76	0.056	0.990	0.003
80	0.852	0.014	0.596	0.012	1.65	0.025	0.964	0.005	1.375	0.038	0.414	0.020	1.69	0.022	0.989	0.003
90	0.805	0.012	0.563	0.015	1.56	0.029	0.968	0.004	1.458	0.034	0.437	0.015	1.60	0.028	0.991	0.002
β liberal majority = 1																
10	1.235	0.009	0.864	0.014	1.38	0.040	0.521	0.018	0.812	0.189	0.244	0.059	2.38	0.101	0.901	0.037
20	1.159	0.023	0.811	0.012	1.36	0.032	0.559	0.018	1.101	0.145	0.331	0.046	2.19	0.078	0.900	0.014
30	1.089	0.020	0.766	0.017	1.29	0.044	0.570	0.011	1.296	0.097	0.384	0.028	1.98	0.061	0.872	0.017
40	1.016	0.013	0.713	0.009	1.24	0.038	0.577	0.019	1.512	0.075	0.451	0.020	1.85	0.043	0.863	0.015
50	0.979	0.016	0.688	0.015	1.19	0.024	0.601	0.021	1.627	0.057	0.485	0.029	1.72	0.037	0.863	0.013
60	0.948	0.016	0.664	0.022	1.16	0.034	0.613	0.019	1.771	0.095	0.531	0.028	1.66	0.048	0.874	0.010
70	0.934	0.009	0.653	0.009	1.15	0.021	0.656	0.015	1.805	0.072	0.542	0.017	1.56	0.031	0.889	0.011
80	0.913	0.020	0.635	0.018	1.15	0.017	0.680	0.010	1.818	0.077	0.553	0.019	1.55	0.029	0.916	0.009
90	0.916	0.018	0.637	0.019	1.12	0.031	0.699	0.018	1.876	0.085	0.569	0.017	1.53	0.037	0.952	0.009
β liberal minority = 1																
10	1.335	0.019	0.936	0.008	2.12	0.089	0.801	0.012	0.849	0.237	0.252	0.059	1.29	0.189	0.487	0.071
20	1.283	0.016	0.898	0.006	1.88	0.038	0.778	0.019	0.945	0.078	0.284	0.027	1.37	0.105	0.565	0.048
30	1.231	0.018	0.861	0.017	1.76	0.056	0.774	0.011	0.916	0.113	0.275	0.031	1.46	0.065	0.642	0.022
40	1.181	0.022	0.828	0.016	1.65	0.027	0.779	0.010	0.985	0.070	0.294	0.025	1.38	0.057	0.650	0.024
50	1.137	0.020	0.795	0.015	1.57	0.033	0.780	0.013	1.009	0.048	0.303	0.021	1.33	0.042	0.660	0.027
60	1.092	0.019	0.766	0.011	1.50	0.035	0.796	0.012	1.061	0.074	0.316	0.019	1.30	0.039	0.691	0.027
70	1.047	0.019	0.732	0.011	1.42	0.020	0.791	0.012	1.189	0.056	0.357	0.017	1.25	0.014	0.695	0.013
80	1.008	0.024	0.707	0.019	1.36	0.028	0.805	0.008	1.227	0.038	0.366	0.011	1.22	0.028	0.725	0.016
90	0.971	0.017	0.678	0.019	1.30	0.018	0.806	0.010	1.230	0.036	0.371	0.016	1.19	0.018	0.738	0.005

Table 17: Referred to Fig: 12, 80% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.25	0.019	0.998	0.001	1.514	0.041	0.877	0.014	4.93	0.278	0.975	0.008	1.689	0.022	0.978	0.009
20	1.25	0.011	0.998	0.001	1.558	0.038	0.870	0.015	4.91	0.180	0.976	0.007	1.753	0.032	0.979	0.007
30	1.25	0.012	0.996	0.002	1.667	0.035	0.878	0.012	4.86	0.184	0.971	0.012	1.848	0.050	0.973	0.013
40	1.25	0.018	0.997	0.001	1.699	0.036	0.888	0.013	4.81	0.256	0.981	0.005	1.880	0.035	0.982	0.006
50	1.25	0.018	0.996	0.001	1.787	0.048	0.898	0.010	4.84	0.245	0.976	0.010	1.945	0.052	0.977	0.010
60	1.24	0.020	0.997	0.001	1.910	0.064	0.908	0.008	4.93	0.306	0.974	0.012	2.041	0.060	0.970	0.012
70	1.25	0.018	0.997	0.001	1.998	0.038	0.925	0.015	4.89	0.279	0.976	0.015	2.105	0.053	0.974	0.017
80	1.25	0.013	0.995	0.001	2.086	0.042	0.924	0.007	4.80	0.199	0.967	0.016	2.165	0.081	0.959	0.025
90	1.25	0.018	0.995	0.002	2.223	0.061	0.924	0.010	4.55	0.222	0.934	0.031	2.217	0.137	0.921	0.043
β liberal majority = 1																
10	1.24	0.014	0.997	0.001	0.981	0.021	0.572	0.012	4.56	0.202	0.904	0.012	1.553	0.027	0.905	0.010
20	1.24	0.015	0.995	0.001	1.029	0.025	0.577	0.021	4.54	0.286	0.885	0.017	1.575	0.037	0.882	0.019
30	1.24	0.016	0.989	0.003	1.130	0.032	0.606	0.018	4.08	0.300	0.828	0.024	1.518	0.059	0.814	0.027
40	1.23	0.009	0.989	0.004	1.200	0.035	0.627	0.025	3.90	0.225	0.769	0.035	1.417	0.077	0.740	0.038
50	1.23	0.014	0.984	0.003	1.275	0.034	0.635	0.023	3.42	0.247	0.686	0.042	1.266	0.121	0.630	0.057
60	1.23	0.017	0.982	0.005	1.356	0.030	0.651	0.013	2.96	0.265	0.587	0.042	1.032	0.080	0.496	0.042
70	1.23	0.013	0.986	0.002	1.429	0.042	0.667	0.019	2.71	0.193	0.538	0.041	0.863	0.076	0.403	0.033
80	1.23	0.013	0.986	0.002	1.500	0.025	0.656	0.018	2.32	0.163	0.465	0.038	0.628	0.115	0.274	0.051
90	1.24	0.011	0.990	0.003	1.575	0.063	0.668	0.022	2.04	0.204	0.408	0.033	0.434	0.143	0.184	0.062
β liberal minority = 1																
10	1.22	0.012	0.984	0.004	1.400	0.037	0.816	0.023	4.77	0.212	0.932	0.010	1.593	0.032	0.928	0.012
20	1.21	0.017	0.969	0.005	1.387	0.031	0.773	0.010	4.64	0.271	0.910	0.018	1.603	0.037	0.893	0.020
30	1.20	0.018	0.959	0.004	1.376	0.039	0.737	0.014	4.67	0.234	0.921	0.018	1.669	0.066	0.894	0.022
40	1.19	0.011	0.948	0.005	1.390	0.024	0.717	0.020	4.55	0.238	0.921	0.020	1.698	0.067	0.876	0.022
50	1.17	0.019	0.936	0.007	1.437	0.031	0.708	0.021	4.54	0.251	0.917	0.019	1.766	0.054	0.869	0.023
60	1.16	0.013	0.926	0.006	1.455	0.027	0.699	0.020	4.44	0.175	0.893	0.016	1.693	0.061	0.813	0.017
70	1.14	0.010	0.909	0.009	1.532	0.052	0.693	0.008	4.18	0.250	0.854	0.032	1.661	0.155	0.752	0.072
80	1.13	0.012	0.905	0.010	1.576	0.030	0.691	0.017	3.81	0.280	0.767	0.052	1.406	0.170	0.618	0.083
90	1.12	0.011	0.892	0.010	1.616	0.043	0.684	0.016	2.96	0.287	0.593	0.067	0.883	0.148	0.374	0.064

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.178	0.012	0.944	0.010	2.11	0.032	0.887	0.012	0.203	0.053	0.040	0.011	2.33	0.065	0.982	0.015
20	1.131	0.015	0.906	0.009	2.01	0.048	0.887	0.010	0.400	0.083	0.079	0.016	2.24	0.054	0.988	0.006
30	1.084	0.012	0.866	0.011	1.90	0.053	0.899	0.006	0.704	0.069	0.141	0.013	2.08	0.067	0.985	0.006
40	1.036	0.010	0.824	0.011	1.89	0.048	0.902	0.009	0.892	0.061	0.183	0.015	2.07	0.053	0.987	0.003
50	1.005	0.010	0.802	0.016	1.84	0.048	0.913	0.009	0.995	0.065	0.202	0.024	1.99	0.060	0.988	0.006
60	0.962	0.014	0.771	0.012	1.76	0.050	0.923	0.007	1.140	0.086	0.226	0.025	1.89	0.058	0.989	0.003
70	0.930	0.010	0.743	0.014	1.75	0.041	0.938	0.010	1.281	0.076	0.256	0.014	1.85	0.034	0.991	0.003
80	0.897	0.009	0.716	0.013	1.68	0.032	0.938	0.004	1.407	0.036	0.284	0.015	1.77	0.033	0.989	0.002
90	0.867	0.013	0.689	0.014	1.61	0.038	0.940	0.006	1.523	0.050	0.313	0.018	1.70	0.038	0.990	0.004
β liberal majority = 1																
10	1.141	0.012	0.914	0.007	1.26	0.022	0.526	0.014	0.764	0.284	0.151	0.056	2.25	0.067	0.939	0.016
20	1.107	0.014	0.890	0.011	1.23	0.029	0.542	0.007	1.260	0.221	0.246	0.045	2.11	0.075	0.928	0.015
30	1.053	0.015	0.839	0.016	1.22	0.020	0.566	0.013	1.394	0.121	0.283	0.025	1.95	0.053	0.904	0.021
40	1.016	0.016	0.815	0.016	1.19	0.028	0.569	0.010	1.805	0.089	0.356	0.016	1.89	0.052	0.904	0.017
50	0.983	0.013	0.785	0.013	1.15	0.039	0.576	0.019	1.927	0.126	0.387	0.032	1.76	0.049	0.886	0.018
60	0.956	0.010	0.766	0.015	1.14	0.015	0.595	0.013	2.103	0.144	0.416	0.018	1.70	0.054	0.882	0.010
70	0.943	0.011	0.756	0.012	1.14	0.022	0.606	0.016	2.310	0.080	0.458	0.016	1.71	0.028	0.909	0.011
80	0.943	0.011	0.754	0.011	1.12	0.022	0.630	0.012	2.329	0.125	0.466	0.027	1.64	0.031	0.921	0.009
90	0.937	0.011	0.749	0.012	1.13	0.023	0.650	0.018	2.416	0.080	0.486	0.016	1.66	0.023	0.956	0.011
β liberal minority = 1																
10	1.190	0.013	0.957	0.008	1.96	0.062	0.819	0.018	1.083	0.349	0.212	0.069	1.23	0.124	0.511	0.045
20	1.157	0.018	0.929	0.014	1.79	0.035	0.790	0.012	1.076	0.173	0.211	0.032	1.32	0.097	0.583	0.039
30	1.132	0.013	0.908	0.008	1.68	0.040	0.776	0.014	1.039	0.110	0.205	0.019	1.38	0.085	0.639	0.042
40	1.102	0.012	0.879	0.008	1.59	0.043	0.768	0.010	1.098	0.126	0.223	0.028	1.38	0.050	0.670	0.022
50	1.082	0.012	0.863	0.014	1.54	0.035	0.780	0.008	1.155	0.179	0.233	0.035	1.35	0.070	0.687	0.031
60	1.060	0.015	0.847	0.013	1.49	0.041	0.773	0.007	1.256	0.076	0.253	0.016	1.31	0.055	0.682	0.024
70	1.029	0.006	0.819	0.009	1.43	0.016	0.783	0.016	1.255	0.101	0.257	0.020	1.27	0.039	0.697	0.022
80	1.002	0.008	0.801	0.007	1.39	0.034	0.781	0.009	1.364	0.051	0.274	0.013	1.27	0.044	0.713	0.023
90	0.981	0.010	0.784	0.010	1.36	0.024	0.786	0.013	1.400	0.060	0.280	0.020	1.26	0.019	0.726	0.012

Table 18: Referred to Fig: 12, 90% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.11	0.009	0.999	0.001	1.69	0.031	0.899	0.010	9.90	0.861	0.961	0.010	1.814	0.036	0.967	0.009
20	1.11	0.009	0.999	0.001	1.69	0.038	0.899	0.009	9.39	0.584	0.961	0.015	1.811	0.037	0.964	0.013
30	1.11	0.007	0.999	0.001	1.73	0.038	0.898	0.011	9.80	0.588	0.965	0.009	1.862	0.043	0.968	0.010
40	1.11	0.009	0.999	0.001	1.77	0.045	0.896	0.011	9.59	0.976	0.954	0.020	1.885	0.065	0.956	0.020
50	1.10	0.009	0.998	0.001	1.78	0.040	0.896	0.011	9.95	0.761	0.953	0.018	1.906	0.053	0.959	0.019
60	1.11	0.009	0.998	0.001	1.82	0.044	0.900	0.016	9.24	0.628	0.940	0.022	1.904	0.043	0.941	0.024
70	1.11	0.009	0.998	0.001	1.88	0.059	0.902	0.010	9.75	0.916	0.945	0.031	1.966	0.081	0.946	0.032
80	1.11	0.011	0.998	0.001	1.94	0.049	0.901	0.015	9.35	0.965	0.945	0.035	2.033	0.074	0.947	0.037
90	1.11	0.006	0.998	0.001	1.97	0.048	0.906	0.013	9.38	0.678	0.929	0.075	2.070	0.153	0.949	0.062
β liberal majority = 1																
10	1.11	0.007	0.998	0.001	1.01	0.015	0.540	0.016	8.94	0.704	0.877	0.019	1.642	0.072	0.880	0.019
20	1.10	0.010	0.998	0.001	1.05	0.021	0.556	0.016	8.79	0.698	0.847	0.022	1.604	0.052	0.848	0.024
30	1.10	0.006	0.996	0.001	1.08	0.018	0.559	0.015	8.32	0.591	0.805	0.031	1.552	0.077	0.803	0.030
40	1.11	0.010	0.995	0.001	1.13	0.031	0.575	0.015	7.46	0.654	0.754	0.034	1.459	0.064	0.742	0.029
50	1.11	0.007	0.994	0.002	1.16	0.021	0.585	0.016	7.28	0.680	0.733	0.053	1.430	0.100	0.720	0.050
60	1.10	0.007	0.991	0.002	1.19	0.033	0.583	0.014	6.10	1.078	0.605	0.098	1.186	0.221	0.582	0.106
70	1.10	0.008	0.991	0.002	1.23	0.019	0.586	0.014	4.24	0.632	0.428	0.074	0.810	0.155	0.387	0.077
80	1.10	0.006	0.991	0.002	1.28	0.027	0.608	0.017	3.45	0.518	0.345	0.049	0.570	0.119	0.271	0.058
90	1.10	0.006	0.993	0.002	1.30	0.037	0.594	0.016	2.78	0.527	0.282	0.057	0.380	0.151	0.174	0.069
β liberal minority = 1																
10	1.10	0.010	0.993	0.003	1.55	0.036	0.843	0.020	9.06	0.768	0.917	0.023	1.680	0.038	0.916	0.023
20	1.10	0.008	0.986	0.003	1.51	0.036	0.800	0.022	8.74	0.554	0.880	0.021	1.643	0.043	0.870	0.021
30	1.09	0.009	0.982	0.003	1.50	0.032	0.784	0.020	8.63	0.722	0.839	0.039	1.572	0.082	0.820	0.037
40	1.08	0.009	0.976	0.003	1.49	0.037	0.756	0.012	8.59	0.515	0.849	0.032	1.635	0.077	0.827	0.032
50	1.08	0.006	0.974	0.004	1.50	0.022	0.750	0.011	8.54	0.742	0.833	0.036	1.646	0.103	0.821	0.038
60	1.07	0.008	0.965	0.007	1.50	0.019	0.731	0.026	7.88	0.527	0.778	0.041	1.540	0.139	0.747	0.041
70	1.07	0.008	0.962	0.006	1.51	0.031	0.723	0.010	7.29	0.874	0.727	0.096	1.412	0.184	0.677	0.092
80	1.06	0.007	0.952	0.007	1.55	0.021	0.716	0.013	5.98	0.762	0.618	0.079	1.190	0.240	0.551	0.115
90	1.06	0.006	0.949	0.007	1.56	0.036	0.703	0.018	4.21	1.201	0.427	0.121	0.807	0.126	0.364	0.056

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.077	0.009	0.972	0.006	1.95	0.042	0.911	0.009	0.319	0.251	0.031	0.024	2.13	0.046	0.992	0.007
20	1.060	0.007	0.951	0.007	1.94	0.027	0.908	0.009	0.469	0.103	0.048	0.012	2.11	0.045	0.988	0.008
30	1.039	0.008	0.936	0.008	1.90	0.035	0.909	0.010	0.682	0.124	0.068	0.014	2.07	0.040	0.991	0.005
40	1.014	0.006	0.913	0.006	1.84	0.042	0.908	0.010	0.899	0.218	0.089	0.018	2.01	0.046	0.989	0.006
50	0.994	0.009	0.899	0.013	1.83	0.036	0.908	0.011	1.074	0.160	0.103	0.015	1.99	0.039	0.987	0.006
60	0.978	0.010	0.878	0.013	1.80	0.046	0.911	0.013	1.118	0.198	0.114	0.020	1.95	0.043	0.988	0.004
70	0.958	0.008	0.864	0.011	1.77	0.047	0.916	0.008	1.416	0.148	0.138	0.013	1.91	0.055	0.989	0.003
80	0.939	0.009	0.844	0.014	1.72	0.043	0.918	0.011	1.468	0.081	0.149	0.012	1.85	0.041	0.990	0.006
90	0.928	0.007	0.836	0.008	1.70	0.031	0.922	0.011	1.633	0.136	0.161	0.013	1.84	0.033	0.993	0.002
β liberal majority = 1																
10	1.061	0.006	0.956	0.007	1.14	0.022	0.526	0.017	0.906	0.516	0.089	0.052	2.02	0.064	0.935	0.031
20	1.043	0.008	0.942	0.008	1.14	0.027	0.540	0.015	1.361	0.317	0.130	0.027	1.99	0.079	0.937	0.025
30	1.022	0.006	0.923	0.008	1.12	0.013	0.542	0.015	1.909	0.404	0.186	0.043	1.95	0.038	0.938	0.016
40	1.007	0.010	0.905	0.009	1.13	0.026	0.553	0.016	2.662	0.513	0.269	0.042	1.90	0.036	0.931	0.013
50	0.995	0.006	0.894	0.007	1.13	0.012	0.560	0.015	2.574	0.253	0.260	0.023	1.89	0.079	0.936	0.013
60	0.984	0.009	0.886	0.010	1.11	0.018	0.564	0.014	2.968	0.333	0.295	0.032	1.80	0.040	0.914	0.021
70	0.968	0.005	0.871	0.008	1.09	0.019	0.571	0.010	3.178	0.222	0.320	0.021	1.77	0.049	0.925	0.014
80	0.959	0.007	0.863	0.009	1.12	0.019	0.589	0.009	3.201	0.240	0.320	0.022	1.78	0.040	0.933	0.011
90	0.962	0.008	0.864	0.010	1.10	0.030	0.598	0.020	3.391	0.414	0.343	0.043	1.76	0.031	0.953	0.007
β liberal minority = 1																
10	1.088	0.013	0.977	0.007	1.87	0.064	0.852	0.017	1.465	0.726	0.150	0.074	1.17	0.284	0.535	0.133
20	1.070	0.005	0.962	0.004	1.74	0.058	0.817	0.014	1.430	0.377	0.144	0.034	1.30	0.100	0.611	0.039
30	1.054	0.009	0.951	0.008	1.67	0.052	0.800	0.018	1.742	0.211	0.170	0.019	1.28	0.072	0.614	0.045
40	1.046	0.006	0.942	0.008	1.60	0.033	0.788	0.014	1.403	0.257	0.139	0.023	1.32	0.070	0.651	0.034
50	1.036	0.006	0.935	0.008	1.57	0.029	0.785	0.008	1.607	0.393	0.156	0.032	1.39	0.031	0.696	0.022
60	1.018	0.009	0.917	0.008	1.51	0.055	0.775	0.004	1.626	0.247	0.161	0.025	1.36	0.081	0.697	0.035
70	1.010	0.006	0.909	0.008	1.48	0.025	0.769	0.008	1.752	0.211	0.175	0.024	1.36	0.061	0.710	0.029
80	0.997	0.008	0.894	0.008	1.45	0.030	0.778	0.006	1.676	0.276	0.173	0.025	1.32	0.061	0.712	0.030
90	0.989	0.006	0.889	0.009	1.41	0.038	0.773	0.010	1.731	0.241	0.175	0.022	1.33	0.062	0.731	0.024

Table 19: Referred to Fig: 13, 50% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	2.02	0.039	0.991	0.002	1.23	0.021	0.860	0.016	1.95	0.036	0.991	0.002	1.42	0.021	0.992	0.002
20	1.97	0.027	0.991	0.004	1.40	0.042	0.903	0.017	2.00	0.026	0.993	0.003	1.53	0.025	0.991	0.003
30	2.00	0.043	0.990	0.004	1.55	0.032	0.936	0.013	1.97	0.041	0.994	0.002	1.64	0.024	0.989	0.004
40	1.97	0.059	0.992	0.003	1.74	0.025	0.958	0.016	2.00	0.056	0.994	0.002	1.79	0.027	0.985	0.004
50	2.00	0.052	0.992	0.004	1.95	0.048	0.973	0.011	1.97	0.054	0.992	0.002	1.95	0.048	0.970	0.005
60	2.00	0.048	0.994	0.002	2.20	0.043	0.980	0.004	1.97	0.045	0.991	0.004	2.12	0.058	0.948	0.019
70	1.97	0.036	0.992	0.004	2.45	0.081	0.980	0.007	1.98	0.048	0.981	0.008	2.29	0.099	0.912	0.022
80	1.97	0.046	0.991	0.005	2.79	0.049	0.980	0.008	1.95	0.045	0.968	0.013	2.40	0.095	0.842	0.038
90	2.02	0.035	0.989	0.003	3.31	0.100	0.976	0.007	1.84	0.069	0.936	0.021	2.32	0.222	0.686	0.066
β liberal majority = 1																
10	1.99	0.055	0.994	0.002	1.31	0.019	0.912	0.010	2.00	0.054	0.996	0.001	1.41	0.016	0.984	0.003
20	1.99	0.027	0.993	0.003	1.47	0.039	0.954	0.015	1.98	0.025	0.993	0.001	1.45	0.031	0.946	0.010
30	1.99	0.058	0.991	0.003	1.59	0.024	0.957	0.008	1.98	0.055	0.992	0.003	1.52	0.012	0.919	0.009
40	1.97	0.046	0.991	0.004	1.74	0.038	0.958	0.016	1.99	0.041	0.992	0.002	1.59	0.031	0.874	0.013
50	1.98	0.031	0.986	0.004	1.89	0.028	0.947	0.013	1.98	0.028	0.993	0.002	1.68	0.037	0.844	0.020
60	1.98	0.033	0.983	0.005	2.10	0.073	0.952	0.011	1.97	0.033	0.990	0.003	1.74	0.035	0.788	0.025
70	1.97	0.038	0.983	0.004	2.37	0.111	0.950	0.009	1.99	0.039	0.992	0.004	1.84	0.102	0.735	0.020
80	1.99	0.050	0.983	0.005	2.77	0.078	0.960	0.011	1.95	0.043	0.987	0.008	1.76	0.117	0.611	0.045
90	1.98	0.040	0.992	0.003	3.18	0.172	0.961	0.013	1.97	0.040	0.979	0.010	1.33	0.119	0.403	0.035
β liberal minority = 1																
10	1.98	0.023	0.994	0.003	1.21	0.016	0.842	0.008	1.99	0.024	0.988	0.002	1.40	0.016	0.976	0.003
20	1.97	0.026	0.993	0.003	1.28	0.025	0.836	0.015	1.99	0.019	0.988	0.002	1.49	0.027	0.974	0.010
30	1.97	0.031	0.992	0.002	1.40	0.032	0.839	0.012	1.99	0.033	0.986	0.003	1.61	0.021	0.967	0.008
40	1.99	0.043	0.992	0.002	1.53	0.020	0.838	0.013	1.97	0.037	0.985	0.002	1.74	0.039	0.956	0.010
50	2.00	0.040	0.992	0.003	1.71	0.042	0.839	0.013	1.96	0.037	0.985	0.005	1.93	0.038	0.949	0.009
60	1.95	0.028	0.989	0.003	1.84	0.032	0.843	0.011	1.99	0.029	0.981	0.007	2.04	0.082	0.933	0.025
70	1.98	0.031	0.990	0.002	2.13	0.045	0.846	0.020	1.96	0.035	0.978	0.005	2.25	0.105	0.891	0.027
80	1.96	0.045	0.987	0.002	2.40	0.075	0.838	0.017	1.95	0.044	0.966	0.006	2.35	0.122	0.820	0.030
90	1.99	0.043	0.987	0.002	2.90	0.096	0.863	0.008	1.86	0.057	0.935	0.017	1.94	0.329	0.579	0.104

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.682	0.035	0.827	0.012	2.94	0.122	0.880	0.012	0.364	0.047	0.185	0.022	3.24	0.152	0.970	0.011
20	1.426	0.035	0.719	0.019	2.60	0.064	0.920	0.013	0.562	0.037	0.279	0.017	2.76	0.087	0.976	0.005
30	1.272	0.037	0.630	0.018	2.40	0.050	0.950	0.009	0.746	0.042	0.377	0.023	2.47	0.058	0.977	0.007
40	1.125	0.035	0.567	0.022	2.16	0.059	0.967	0.010	0.904	0.032	0.448	0.017	2.19	0.053	0.982	0.005
50	1.005	0.013	0.499	0.015	1.95	0.043	0.979	0.007	1.018	0.021	0.513	0.016	1.95	0.047	0.977	0.003
60	0.914	0.032	0.455	0.025	1.78	0.026	0.984	0.003	1.111	0.030	0.559	0.022	1.76	0.030	0.974	0.008
70	0.846	0.026	0.426	0.017	1.64	0.038	0.983	0.003	1.172	0.024	0.582	0.015	1.62	0.038	0.973	0.005
80	0.763	0.028	0.384	0.015	1.51	0.019	0.982	0.005	1.237	0.017	0.613	0.014	1.50	0.021	0.973	0.006
90	0.730	0.045	0.358	0.025	1.39	0.025	0.981	0.004	1.285	0.020	0.654	0.012	1.39	0.021	0.977	0.005
β liberal majority = 1																
10	1.804	0.045	0.903	0.008	3.06	0.089	0.928	0.008	0.904	0.093	0.450	0.036	2.91	0.102	0.882	0.025
20	1.652	0.026	0.823	0.012	2.75	0.088	0.958	0.010	1.056	0.044	0.530	0.018	2.37	0.102	0.826	0.025
30	1.568	0.041	0.780	0.009	2.42	0.048	0.960	0.008	1.203	0.042	0.604	0.014	2.13	0.064	0.845	0.014
40	1.517	0.027	0.762	0.012	2.14	0.068	0.963	0.011	1.334	0.043	0.664	0.017	1.87	0.055	0.844	0.011
50	1.489	0.038	0.741	0.013	1.93	0.043	0.960	0.010	1.416	0.031	0.711	0.019	1.74	0.036	0.869	0.010
60	1.483	0.035	0.735	0.013	1.77	0.049	0.966	0.008	1.489	0.031	0.750	0.016	1.61	0.054	0.878	0.008
70	1.507	0.048	0.754	0.021	1.62	0.051	0.967	0.009	1.602	0.039	0.800	0.015	1.51	0.037	0.903	0.008
80	1.619	0.054	0.799	0.012	1.49	0.019	0.975	0.008	1.698	0.022	0.859	0.015	1.41	0.020	0.923	0.006
90	1.767	0.056	0.887	0.023	1.39	0.030	0.969	0.012	1.865	0.044	0.928	0.013	1.37	0.027	0.953	0.007
β liberal minority = 1																
10	1.794	0.023	0.903	0.010	2.82	0.076	0.852	0.012	1.235	0.054	0.614	0.028	2.88	0.163	0.870	0.042
20	1.686	0.029	0.849	0.017	2.46	0.071	0.852	0.012	1.345	0.065	0.668	0.028	2.67	0.116	0.926	0.038
30	1.565	0.022	0.788	0.011	2.14	0.046	0.852	0.010	1.397	0.041	0.693	0.016	2.38	0.071	0.948	0.011
40	1.497	0.052	0.746	0.020	1.90	0.044	0.857	0.009	1.448	0.039	0.726	0.018	2.11	0.028	0.953	0.012
50	1.424	0.032	0.708	0.013	1.71	0.034	0.870	0.012	1.472	0.021	0.740	0.009	1.90	0.043	0.964	0.005
60	1.332	0.039	0.676	0.018	1.60	0.022	0.866	0.011	1.528	0.022	0.753	0.011	1.78	0.028	0.964	0.011
70	1.290	0.031	0.647	0.013	1.46	0.029	0.878	0.011	1.550	0.020	0.773	0.012	1.60	0.015	0.963	0.009
80	1.268	0.036	0.640	0.017	1.35	0.021	0.876	0.013	1.591	0.028	0.788	0.007	1.48	0.017	0.962	0.006
90	1.212	0.033	0.601	0.013	1.27	0.020	0.892	0.007	1.599	0.028	0.805	0.005	1.37	0.024	0.962	0.008

Table 20: Referred to Fig: 13, 60% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.66	0.021	0.994	0.002	1.31	0.026	0.867	0.014	2.46	0.048	0.986	0.002	1.50	0.021	0.987	0.003
20	1.64	0.018	0.992	0.003	1.43	0.040	0.884	0.023	2.50	0.052	0.988	0.004	1.60	0.041	0.988	0.004
30	1.66	0.027	0.992	0.002	1.59	0.034	0.921	0.015	2.46	0.054	0.991	0.005	1.71	0.037	0.988	0.007
40	1.66	0.029	0.993	0.002	1.72	0.045	0.928	0.014	2.48	0.061	0.993	0.002	1.83	0.037	0.988	0.002
50	1.67	0.023	0.994	0.002	1.91	0.035	0.954	0.007	2.44	0.056	0.991	0.003	1.96	0.039	0.979	0.008
60	1.66	0.031	0.992	0.002	2.12	0.047	0.964	0.009	2.45	0.066	0.987	0.003	2.12	0.069	0.967	0.009
70	1.67	0.027	0.995	0.002	2.31	0.060	0.968	0.007	2.44	0.055	0.982	0.008	2.28	0.085	0.953	0.016
80	1.65	0.032	0.993	0.003	2.56	0.054	0.973	0.007	2.44	0.074	0.968	0.015	2.42	0.093	0.920	0.024
90	1.65	0.033	0.993	0.001	2.88	0.117	0.973	0.004	2.33	0.092	0.923	0.015	2.32	0.187	0.786	0.073
β liberal majority = 1																
10	1.65	0.020	0.996	0.002	1.38	0.026	0.914	0.012	2.51	0.053	0.997	0.002	1.49	0.017	0.989	0.005
20	1.67	0.041	0.994	0.002	1.48	0.029	0.934	0.015	2.45	0.090	0.993	0.002	1.54	0.025	0.967	0.004
30	1.66	0.037	0.993	0.002	1.63	0.036	0.947	0.009	2.48	0.081	0.989	0.002	1.60	0.030	0.932	0.008
40	1.65	0.029	0.993	0.002	1.76	0.036	0.957	0.009	2.48	0.067	0.988	0.003	1.63	0.038	0.884	0.013
50	1.66	0.020	0.992	0.002	1.93	0.044	0.957	0.010	2.45	0.043	0.987	0.003	1.70	0.054	0.840	0.013
60	1.65	0.027	0.990	0.003	2.02	0.044	0.941	0.010	2.48	0.068	0.988	0.004	1.74	0.054	0.808	0.024
70	1.63	0.022	0.989	0.002	2.29	0.070	0.945	0.012	2.50	0.047	0.986	0.005	1.80	0.095	0.746	0.028
80	1.66	0.026	0.989	0.003	2.52	0.068	0.963	0.008	2.44	0.053	0.982	0.008	1.63	0.085	0.621	0.029
90	1.65	0.030	0.992	0.002	2.80	0.080	0.963	0.014	2.46	0.080	0.977	0.010	1.27	0.164	0.437	0.052
β liberal minority = 1																
10	1.65	0.027	0.995	0.002	1.29	0.016	0.848	0.014	2.47	0.066	0.982	0.003	1.47	0.022	0.967	0.005
20	1.66	0.021	0.995	0.002	1.36	0.021	0.845	0.017	2.44	0.047	0.979	0.003	1.55	0.027	0.963	0.005
30	1.66	0.012	0.995	0.002	1.46	0.031	0.838	0.018	2.45	0.032	0.980	0.004	1.67	0.039	0.962	0.006
40	1.66	0.016	0.995	0.001	1.56	0.048	0.836	0.014	2.46	0.034	0.981	0.004	1.78	0.024	0.952	0.008
50	1.66	0.033	0.995	0.002	1.68	0.034	0.843	0.014	2.44	0.062	0.979	0.007	1.89	0.044	0.945	0.015
60	1.65	0.039	0.994	0.003	1.84	0.071	0.842	0.007	2.47	0.104	0.976	0.006	2.04	0.076	0.937	0.012
70	1.66	0.032	0.994	0.003	1.97	0.047	0.832	0.008	2.44	0.060	0.975	0.007	2.15	0.061	0.908	0.025
80	1.65	0.027	0.993	0.002	2.20	0.076	0.841	0.016	2.45	0.059	0.976	0.008	2.20	0.097	0.841	0.045
90	1.67	0.025	0.994	0.002	2.50	0.086	0.851	0.012	2.31	0.091	0.935	0.023	1.78	0.223	0.608	0.078

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.457	0.024	0.873	0.016	2.58	0.054	0.879	0.013	0.316	0.062	0.127	0.025	2.86	0.060	0.976	0.008
20	1.322	0.018	0.798	0.019	2.37	0.092	0.902	0.013	0.546	0.059	0.216	0.024	2.56	0.092	0.975	0.008
30	1.188	0.032	0.710	0.014	2.22	0.059	0.936	0.009	0.731	0.040	0.294	0.016	2.33	0.050	0.979	0.008
40	1.105	0.019	0.662	0.011	2.05	0.045	0.942	0.012	0.850	0.038	0.341	0.021	2.14	0.056	0.984	0.004
50	1.013	0.027	0.601	0.013	1.93	0.037	0.964	0.005	1.010	0.032	0.410	0.013	1.97	0.041	0.984	0.006
60	0.936	0.019	0.559	0.017	1.79	0.045	0.974	0.006	1.120	0.041	0.451	0.014	1.81	0.033	0.983	0.004
70	0.872	0.029	0.521	0.023	1.68	0.039	0.974	0.006	1.216	0.026	0.490	0.017	1.70	0.032	0.985	0.005
80	0.803	0.023	0.485	0.018	1.58	0.025	0.979	0.004	1.293	0.032	0.512	0.011	1.59	0.022	0.987	0.003
90	0.766	0.019	0.462	0.015	1.48	0.029	0.978	0.002	1.374	0.023	0.546	0.014	1.49	0.032	0.985	0.004
β liberal majority = 1																
10	1.544	0.022	0.931	0.006	2.75	0.063	0.927	0.010	0.972	0.100	0.386	0.043	2.70	0.125	0.912	0.032
20	1.479	0.024	0.879	0.020	2.54	0.084	0.942	0.011	1.203	0.104	0.487	0.032	2.39	0.077	0.886	0.015
30	1.405	0.028	0.843	0.010	2.28	0.076	0.954	0.007	1.379	0.053	0.551	0.022	2.08	0.059	0.868	0.009
40	1.342	0.015	0.808	0.012	2.10	0.031	0.961	0.009	1.483	0.059	0.591	0.025	1.88	0.036	0.861	0.011
50	1.310	0.025	0.782	0.015	1.91	0.051	0.964	0.006	1.581	0.059	0.637	0.024	1.74	0.044	0.875	0.017
60	1.302	0.023	0.782	0.016	1.78	0.038	0.953	0.007	1.714	0.065	0.684	0.017	1.67	0.034	0.892	0.010
70	1.306	0.024	0.791	0.010	1.64	0.053	0.961	0.008	1.854	0.030	0.731	0.016	1.56	0.035	0.913	0.008
80	1.370	0.031	0.819	0.019	1.57	0.031	0.972	0.005	2.007	0.074	0.807	0.022	1.50	0.027	0.926	0.005
90	1.477	0.046	0.889	0.018	1.48	0.032	0.972	0.012	2.239	0.064	0.890	0.019	1.45	0.024	0.952	0.006
β liberal minority = 1																
10	1.540	0.020	0.927	0.006	2.51	0.070	0.855	0.009	1.467	0.088	0.583	0.036	2.47	0.095	0.840	0.043
20	1.463	0.018	0.875	0.008	2.26	0.071	0.857	0.009	1.524	0.046	0.613	0.013	2.42	0.102	0.919	0.023
30	1.402	0.020	0.840	0.011	2.02	0.063	0.860	0.010	1.608	0.050	0.645	0.018	2.23	0.065	0.948	0.013
40	1.328	0.022	0.798	0.012	1.85	0.035	0.858	0.014	1.675	0.047	0.668	0.011	2.06	0.053	0.956	0.008
50	1.287	0.027	0.770	0.012	1.73	0.031	0.864	0.009	1.740	0.056	0.698	0.017	1.93	0.041	0.964	0.010
60	1.237	0.031	0.746	0.023	1.60	0.040	0.866	0.011	1.804	0.084	0.714	0.014	1.80	0.061	0.972	0.006
70	1.193	0.021	0.717	0.017	1.49	0.023	0.862	0.007	1.814	0.035	0.724	0.012	1.68	0.038	0.969	0.009
80	1.132	0.025	0.681	0.019	1.42	0.031	0.873	0.012	1.828	0.048	0.729	0.012	1.56	0.040	0.965	0.008
90	1.107	0.016	0.660	0.010	1.33	0.017	0.874	0.011	1.872	0.032	0.756	0.009	1.47	0.030	0.967	0.006

Table 21: Referred to Fig: 13, 70% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.42	0.017	0.994	0.002	1.41	0.019	0.865	0.012	3.26	0.084	0.979	0.004	1.60	0.027	0.983	0.004
20	1.42	0.018	0.995	0.002	1.49	0.030	0.875	0.009	3.27	0.112	0.979	0.005	1.67	0.033	0.980	0.007
30	1.42	0.019	0.995	0.001	1.60	0.035	0.891	0.012	3.28	0.126	0.985	0.007	1.77	0.054	0.986	0.008
40	1.43	0.020	0.996	0.002	1.73	0.049	0.907	0.011	3.25	0.114	0.988	0.006	1.87	0.045	0.984	0.007
50	1.41	0.032	0.995	0.002	1.84	0.031	0.921	0.007	3.37	0.214	0.983	0.008	1.96	0.034	0.979	0.010
60	1.42	0.021	0.995	0.002	2.01	0.037	0.940	0.013	3.28	0.115	0.985	0.007	2.09	0.041	0.979	0.010
70	1.41	0.030	0.995	0.001	2.16	0.077	0.945	0.009	3.32	0.157	0.979	0.005	2.21	0.102	0.968	0.009
80	1.42	0.021	0.995	0.001	2.31	0.048	0.955	0.006	3.24	0.100	0.975	0.007	2.29	0.082	0.946	0.019
90	1.42	0.022	0.995	0.002	2.52	0.067	0.960	0.008	3.11	0.120	0.933	0.023	2.32	0.120	0.883	0.030
β liberal majority = 1																
10	1.43	0.012	0.996	0.002	1.48	0.048	0.911	0.020	3.29	0.061	0.995	0.002	1.60	0.026	0.990	0.004
20	1.42	0.018	0.995	0.002	1.57	0.048	0.932	0.012	3.35	0.098	0.992	0.003	1.64	0.030	0.969	0.006
30	1.43	0.024	0.994	0.002	1.67	0.020	0.945	0.012	3.27	0.152	0.988	0.004	1.65	0.031	0.935	0.011
40	1.41	0.022	0.994	0.002	1.78	0.035	0.950	0.007	3.33	0.123	0.984	0.004	1.70	0.030	0.907	0.015
50	1.42	0.019	0.995	0.002	1.91	0.041	0.950	0.008	3.29	0.109	0.984	0.004	1.75	0.042	0.870	0.019
60	1.42	0.024	0.994	0.002	2.04	0.052	0.952	0.010	3.26	0.095	0.982	0.007	1.74	0.049	0.814	0.023
70	1.41	0.017	0.992	0.003	2.12	0.060	0.943	0.015	3.30	0.104	0.974	0.010	1.73	0.063	0.768	0.024
80	1.42	0.022	0.992	0.002	2.34	0.072	0.953	0.009	3.24	0.124	0.971	0.014	1.62	0.101	0.662	0.038
90	1.41	0.020	0.993	0.002	2.56	0.090	0.962	0.011	3.27	0.130	0.965	0.018	1.19	0.265	0.450	0.106
β liberal minority = 1																
10	1.42	0.016	0.998	0.001	1.41	0.046	0.873	0.020	3.30	0.082	0.979	0.005	1.55	0.019	0.957	0.012
20	1.44	0.027	0.997	0.002	1.45	0.028	0.851	0.007	3.18	0.114	0.977	0.011	1.62	0.036	0.954	0.016
30	1.42	0.018	0.997	0.001	1.52	0.040	0.862	0.015	3.23	0.087	0.970	0.009	1.67	0.028	0.944	0.012
40	1.42	0.029	0.996	0.001	1.58	0.029	0.844	0.009	3.23	0.169	0.969	0.012	1.75	0.043	0.936	0.017
50	1.42	0.022	0.997	0.002	1.71	0.037	0.858	0.015	3.27	0.145	0.968	0.007	1.86	0.068	0.931	0.017
60	1.43	0.016	0.997	0.001	1.80	0.033	0.846	0.016	3.20	0.100	0.961	0.013	1.93	0.058	0.907	0.027
70	1.41	0.019	0.997	0.002	1.92	0.047	0.843	0.014	3.26	0.088	0.950	0.013	2.00	0.096	0.875	0.043
80	1.44	0.016	0.998	0.001	2.04	0.042	0.832	0.017	3.12	0.111	0.954	0.016	2.07	0.157	0.841	0.060
90	1.43	0.017	0.997	0.001	2.18	0.048	0.836	0.015	3.08	0.121	0.934	0.020	1.76	0.099	0.675	0.046

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.300	0.020	0.910	0.011	2.28	0.058	0.879	0.007	0.287	0.050	0.086	0.016	2.52	0.052	0.972	0.011
20	1.211	0.011	0.848	0.012	2.16	0.052	0.889	0.009	0.534	0.069	0.161	0.024	2.38	0.077	0.978	0.011
30	1.134	0.022	0.793	0.016	2.05	0.070	0.909	0.007	0.675	0.058	0.203	0.020	2.22	0.069	0.982	0.006
40	1.067	0.021	0.742	0.018	1.95	0.041	0.924	0.011	0.862	0.050	0.263	0.021	2.08	0.051	0.985	0.006
50	1.010	0.015	0.714	0.012	1.87	0.030	0.935	0.006	1.006	0.050	0.294	0.018	1.98	0.035	0.987	0.005
60	0.944	0.014	0.660	0.009	1.79	0.031	0.952	0.011	1.151	0.039	0.345	0.013	1.86	0.022	0.990	0.003
70	0.903	0.015	0.636	0.015	1.70	0.056	0.955	0.006	1.284	0.047	0.380	0.025	1.76	0.056	0.990	0.003
80	0.852	0.014	0.596	0.012	1.65	0.025	0.964	0.005	1.375	0.038	0.414	0.020	1.69	0.022	0.989	0.003
90	0.805	0.012	0.563	0.015	1.56	0.029	0.968	0.004	1.458	0.034	0.437	0.015	1.60	0.028	0.991	0.002
β liberal majority = 1																
10	1.361	0.019	0.950	0.008	2.42	0.060	0.926	0.016	1.145	0.163	0.346	0.053	2.41	0.078	0.921	0.023
20	1.304	0.019	0.917	0.009	2.31	0.062	0.942	0.011	1.475	0.168	0.438	0.052	2.22	0.084	0.902	0.013
30	1.262	0.019	0.880	0.013	2.19	0.042	0.951	0.009	1.676	0.133	0.507	0.030	2.04	0.029	0.884	0.015
40	1.222	0.018	0.861	0.012	2.05	0.041	0.956	0.005	1.743	0.098	0.515	0.024	1.90	0.066	0.884	0.017
50	1.203	0.012	0.843	0.011	1.91	0.052	0.957	0.008	1.934	0.066	0.579	0.012	1.79	0.043	0.900	0.012
60	1.184	0.016	0.827	0.009	1.80	0.027	0.960	0.008	2.087	0.102	0.628	0.030	1.71	0.027	0.909	0.007
70	1.180	0.015	0.832	0.013	1.72	0.029	0.953	0.013	2.263	0.093	0.668	0.020	1.66	0.022	0.919	0.008
80	1.202	0.024	0.841	0.007	1.63	0.025	0.963	0.008	2.420	0.044	0.726	0.024	1.58	0.028	0.934	0.008
90	1.285	0.034	0.905	0.014	1.56	0.028	0.972	0.010	2.871	0.077	0.848	0.029	1.53	0.028	0.952	0.007
β liberal minority = 1																
10	1.345	0.019	0.946	0.008	2.30	0.066	0.877	0.017	1.888	0.129	0.561	0.047	2.13	0.125	0.814	0.042
20	1.307	0.021	0.905	0.013	2.10	0.072	0.864	0.006	1.872	0.132	0.573	0.021	2.20	0.100	0.907	0.032
30	1.249	0.017	0.874	0.008	2.00	0.052	0.866	0.015	1.989	0.092	0.596	0.018	2.15	0.074	0.934	0.016
40	1.218	0.024	0.852	0.015	1.85	0.035	0.858	0.009	2.083	0.119	0.624	0.026	2.03	0.052	0.942	0.016
50	1.188	0.024	0.835	0.011	1.75	0.051	0.872	0.013	2.225	0.061	0.661	0.022	1.93	0.042	0.960	0.014
60	1.145	0.012	0.801	0.014	1.64	0.046	0.865	0.011	2.230	0.101	0.670	0.021	1.82	0.050	0.964	0.010
70	1.135	0.020	0.804	0.017	1.54	0.037	0.865	0.013	2.394	0.118	0.697	0.021	1.72	0.044	0.967	0.013
80	1.118	0.027	0.775	0.020	1.46	0.032	0.863	0.010	2.325	0.082	0.712	0.020	1.64	0.034	0.972	0.011
90	1.062	0.023	0.740	0.014	1.40	0.030	0.862	0.009	2.328	0.038	0.706	0.016	1.58	0.026	0.971	0.005

Table 22: Referred to Fig: 13, 80% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.25	0.019	0.998	0.001	1.51	0.041	0.877	0.014	4.93	0.278	0.975	0.008	1.69	0.022	0.978	0.009
20	1.25	0.011	0.998	0.001	1.56	0.038	0.870	0.015	4.91	0.180	0.976	0.007	1.75	0.032	0.979	0.007
30	1.25	0.012	0.996	0.002	1.67	0.035	0.878	0.012	4.86	0.184	0.971	0.012	1.85	0.050	0.973	0.013
40	1.25	0.018	0.997	0.001	1.70	0.036	0.888	0.013	4.81	0.256	0.981	0.005	1.88	0.035	0.982	0.006
50	1.25	0.018	0.996	0.001	1.79	0.048	0.898	0.010	4.84	0.245	0.976	0.010	1.95	0.052	0.977	0.010
60	1.24	0.020	0.997	0.001	1.91	0.064	0.908	0.008	4.93	0.306	0.974	0.012	2.04	0.060	0.970	0.012
70	1.25	0.018	0.997	0.001	2.00	0.038	0.925	0.015	4.89	0.279	0.976	0.015	2.10	0.053	0.974	0.017
80	1.25	0.013	0.995	0.001	2.09	0.042	0.924	0.007	4.80	0.199	0.967	0.016	2.16	0.081	0.959	0.025
90	1.25	0.018	0.995	0.002	2.22	0.061	0.924	0.010	4.55	0.222	0.934	0.031	2.22	0.137	0.921	0.043
β liberal majority = 1																
10	1.24	0.016	0.997	0.001	1.59	0.043	0.911	0.011	5.03	0.251	0.993	0.003	1.73	0.052	0.993	0.004
20	1.25	0.011	0.997	0.002	1.67	0.050	0.928	0.011	4.97	0.189	0.991	0.003	1.76	0.037	0.979	0.007
30	1.25	0.013	0.997	0.001	1.74	0.053	0.938	0.012	4.96	0.228	0.990	0.006	1.78	0.057	0.959	0.009
40	1.24	0.016	0.996	0.001	1.81	0.025	0.943	0.010	4.96	0.282	0.982	0.005	1.78	0.051	0.931	0.019
50	1.25	0.014	0.996	0.002	1.91	0.040	0.942	0.008	4.84	0.212	0.976	0.009	1.82	0.065	0.897	0.023
60	1.25	0.009	0.996	0.001	2.01	0.047	0.946	0.007	4.81	0.141	0.964	0.010	1.76	0.064	0.831	0.027
70	1.24	0.016	0.996	0.001	2.08	0.052	0.951	0.010	4.86	0.215	0.956	0.018	1.69	0.063	0.773	0.024
80	1.24	0.022	0.996	0.001	2.12	0.045	0.952	0.010	4.81	0.319	0.950	0.021	1.51	0.107	0.676	0.049
90	1.25	0.017	0.995	0.002	2.25	0.051	0.952	0.010	4.61	0.217	0.927	0.037	1.20	0.210	0.507	0.096
β liberal minority = 1																
10	1.24	0.015	0.998	0.001	1.53	0.032	0.887	0.013	4.91	0.224	0.967	0.006	1.62	0.039	0.942	0.012
20	1.25	0.014	0.999	0.001	1.56	0.036	0.873	0.014	4.80	0.212	0.968	0.009	1.68	0.033	0.936	0.016
30	1.25	0.013	0.999	0.001	1.61	0.025	0.874	0.010	4.83	0.220	0.966	0.009	1.70	0.035	0.926	0.020
40	1.24	0.014	0.998	0.001	1.71	0.030	0.881	0.011	4.90	0.213	0.958	0.009	1.78	0.034	0.916	0.016
50	1.25	0.018	0.998	0.001	1.73	0.062	0.867	0.021	4.78	0.282	0.957	0.015	1.83	0.066	0.917	0.020
60	1.26	0.013	0.999	0.001	1.81	0.047	0.874	0.014	4.64	0.172	0.947	0.021	1.83	0.123	0.883	0.050
70	1.25	0.016	0.999	0.001	1.92	0.045	0.867	0.017	4.69	0.218	0.934	0.021	1.90	0.100	0.857	0.038
80	1.25	0.016	0.999	0.000	1.95	0.078	0.858	0.011	4.65	0.280	0.934	0.016	1.82	0.140	0.800	0.063
90	1.25	0.017	0.999	0.001	2.03	0.046	0.855	0.011	4.47	0.333	0.894	0.035	1.52	0.249	0.643	0.100

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.178	0.012	0.944	0.010	2.11	0.032	0.887	0.012	0.203	0.053	0.040	0.011	2.33	0.065	0.982	0.015
20	1.131	0.015	0.906	0.009	2.01	0.048	0.887	0.010	0.400	0.083	0.079	0.016	2.24	0.054	0.988	0.006
30	1.084	0.012	0.866	0.011	1.90	0.053	0.899	0.006	0.704	0.069	0.141	0.013	2.08	0.067	0.985	0.006
40	1.036	0.010	0.824	0.011	1.89	0.048	0.902	0.009	0.892	0.061	0.183	0.015	2.07	0.053	0.987	0.003
50	1.005	0.010	0.802	0.016	1.84	0.048	0.913	0.009	0.995	0.065	0.202	0.024	1.99	0.060	0.988	0.006
60	0.962	0.014	0.771	0.012	1.76	0.050	0.923	0.007	1.140	0.086	0.226	0.025	1.89	0.058	0.989	0.003
70	0.930	0.010	0.743	0.014	1.75	0.041	0.938	0.010	1.281	0.076	0.256	0.014	1.85	0.034	0.991	0.003
80	0.897	0.009	0.716	0.013	1.68	0.032	0.938	0.004	1.407	0.036	0.284	0.015	1.77	0.033	0.989	0.002
90	0.867	0.013	0.689	0.014	1.61	0.038	0.940	0.006	1.523	0.050	0.313	0.018	1.70	0.038	0.990	0.004
β liberal majority = 1																
10	1.207	0.015	0.968	0.004	2.18	0.084	0.927	0.008	1.361	0.302	0.269	0.060	2.21	0.095	0.943	0.027
20	1.182	0.011	0.946	0.003	2.11	0.050	0.940	0.009	1.848	0.315	0.368	0.055	2.11	0.067	0.939	0.013
30	1.158	0.014	0.927	0.009	2.05	0.071	0.946	0.012	2.246	0.242	0.448	0.045	2.00	0.077	0.924	0.016
40	1.132	0.013	0.907	0.010	1.99	0.044	0.951	0.007	2.322	0.222	0.461	0.044	1.93	0.044	0.921	0.017
50	1.119	0.010	0.893	0.006	1.88	0.041	0.952	0.007	2.516	0.134	0.508	0.024	1.83	0.034	0.926	0.014
60	1.103	0.012	0.882	0.010	1.81	0.036	0.954	0.007	2.781	0.216	0.557	0.038	1.75	0.034	0.923	0.011
70	1.092	0.014	0.877	0.004	1.76	0.043	0.957	0.007	3.004	0.126	0.592	0.027	1.73	0.043	0.936	0.010
80	1.099	0.013	0.881	0.009	1.74	0.040	0.958	0.008	3.354	0.235	0.662	0.021	1.72	0.040	0.945	0.011
90	1.138	0.019	0.908	0.010	1.66	0.024	0.959	0.010	3.796	0.203	0.763	0.032	1.67	0.030	0.961	0.007
β liberal minority = 1																
10	1.198	0.011	0.961	0.004	2.12	0.072	0.891	0.011	2.577	0.269	0.509	0.059	1.86	0.168	0.781	0.062
20	1.178	0.014	0.940	0.005	2.00	0.042	0.882	0.012	2.641	0.159	0.533	0.025	1.97	0.086	0.869	0.039
30	1.153	0.013	0.922	0.009	1.94	0.050	0.882	0.009	2.877	0.230	0.575	0.039	1.99	0.092	0.904	0.031
40	1.121	0.013	0.901	0.010	1.84	0.048	0.893	0.010	2.986	0.126	0.585	0.030	1.94	0.066	0.938	0.021
50	1.115	0.014	0.891	0.007	1.77	0.057	0.880	0.016	3.053	0.194	0.612	0.031	1.92	0.060	0.957	0.014
60	1.097	0.018	0.872	0.013	1.71	0.036	0.884	0.010	3.145	0.232	0.642	0.035	1.85	0.056	0.956	0.024
70	1.094	0.013	0.876	0.014	1.62	0.039	0.888	0.014	3.414	0.232	0.680	0.025	1.76	0.034	0.967	0.010
80	1.070	0.018	0.854	0.013	1.57	0.032	0.879	0.012	3.325	0.122	0.670	0.029	1.73	0.059	0.965	0.014
90	1.052	0.014	0.841	0.014	1.52	0.034	0.877	0.009	3.390	0.171	0.680	0.020	1.68	0.028	0.971	0.008

Table 23: Referred to Fig: 13, 90% Majority

% liberal min	Conservative Majority								Conservative Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.11	0.009	0.999	0.001	1.69	0.031	0.899	0.010	9.90	0.861	0.961	0.010	1.81	0.036	0.967	0.009
20	1.11	0.009	0.999	0.001	1.69	0.038	0.899	0.009	9.39	0.584	0.961	0.015	1.81	0.037	0.964	0.013
30	1.11	0.007	0.999	0.001	1.73	0.038	0.898	0.011	9.80	0.588	0.965	0.009	1.86	0.043	0.968	0.010
40	1.11	0.009	0.999	0.001	1.77	0.045	0.896	0.011	9.59	0.976	0.954	0.020	1.88	0.065	0.956	0.020
50	1.10	0.009	0.998	0.001	1.78	0.040	0.896	0.011	9.95	0.761	0.953	0.018	1.91	0.053	0.959	0.019
60	1.11	0.009	0.998	0.001	1.82	0.044	0.900	0.016	9.24	0.628	0.940	0.022	1.90	0.043	0.941	0.024
70	1.11	0.009	0.998	0.001	1.88	0.059	0.902	0.010	9.75	0.916	0.945	0.031	1.97	0.081	0.946	0.032
80	1.11	0.011	0.998	0.001	1.94	0.049	0.901	0.015	9.35	0.965	0.945	0.035	2.03	0.074	0.947	0.037
90	1.11	0.006	0.998	0.001	1.97	0.048	0.906	0.013	9.38	0.678	0.929	0.075	2.07	0.153	0.949	0.062
β liberal majority = 1																
10	1.11	0.009	0.999	0.001	1.70	0.034	0.923	0.007	10.08	0.785	0.993	0.005	1.83	0.034	0.996	0.004
20	1.11	0.007	0.999	0.001	1.74	0.049	0.922	0.015	10.14	0.588	0.990	0.007	1.86	0.039	0.984	0.012
30	1.11	0.008	0.998	0.001	1.78	0.040	0.927	0.009	10.12	0.605	0.983	0.007	1.87	0.049	0.974	0.009
40	1.11	0.007	0.998	0.001	1.83	0.035	0.935	0.008	10.06	0.622	0.980	0.009	1.87	0.055	0.957	0.020
50	1.11	0.011	0.997	0.001	1.88	0.031	0.941	0.006	9.76	0.940	0.972	0.009	1.86	0.054	0.931	0.031
60	1.11	0.009	0.998	0.001	1.94	0.019	0.947	0.013	9.59	0.668	0.961	0.016	1.80	0.091	0.877	0.042
70	1.11	0.011	0.998	0.001	1.96	0.046	0.945	0.005	9.46	0.875	0.953	0.017	1.72	0.077	0.828	0.045
80	1.11	0.009	0.998	0.001	2.00	0.024	0.947	0.009	9.08	0.717	0.926	0.033	1.57	0.092	0.746	0.042
90	1.10	0.007	0.997	0.002	2.06	0.038	0.945	0.009	8.95	1.080	0.859	0.079	1.03	0.382	0.473	0.180
β liberal minority = 1																
10	1.11	0.006	1.000	0.000	1.67	0.031	0.899	0.015	9.46	0.486	0.959	0.013	1.73	0.042	0.932	0.011
20	1.11	0.009	0.999	0.001	1.71	0.030	0.898	0.008	9.89	0.664	0.951	0.018	1.75	0.026	0.919	0.018
30	1.11	0.008	0.999	0.001	1.73	0.039	0.897	0.009	9.52	0.574	0.947	0.017	1.72	0.070	0.889	0.033
40	1.11	0.009	0.999	0.001	1.76	0.030	0.899	0.010	9.19	0.763	0.923	0.028	1.67	0.098	0.853	0.053
50	1.11	0.007	1.000	0.001	1.81	0.028	0.900	0.013	9.52	0.701	0.939	0.016	1.70	0.067	0.847	0.039
60	1.11	0.008	0.999	0.001	1.80	0.050	0.892	0.013	9.56	0.668	0.938	0.015	1.69	0.096	0.836	0.050
70	1.11	0.007	1.000	0.000	1.88	0.059	0.896	0.017	9.43	0.681	0.924	0.033	1.67	0.161	0.795	0.074
80	1.11	0.008	1.000	0.000	1.90	0.043	0.890	0.014	9.52	0.596	0.919	0.055	1.36	0.264	0.637	0.123
90	1.11	0.012	0.999	0.001	1.91	0.035	0.886	0.016	9.15	1.164	0.881	0.059	1.46	0.255	0.675	0.112

% liberal min	Liberal Majority								Liberal Minority							
	Ethnic				Value				Ethnic				Value			
	Clustering		Exposure		Clustering		Exposure		Clustering		Exposure		Clustering		Exposure	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Baseline																
10	1.077	0.009	0.972	0.006	1.95	0.042	0.911	0.009	0.319	0.251	0.031	0.024	2.13	0.046	0.992	0.007
20	1.060	0.007	0.951	0.007	1.94	0.027	0.908	0.009	0.469	0.103	0.048	0.012	2.11	0.045	0.988	0.008
30	1.039	0.008	0.936	0.008	1.90	0.035	0.909	0.010	0.682	0.124	0.068	0.014	2.07	0.040	0.991	0.005
40	1.014	0.006	0.913	0.006	1.84	0.042	0.908	0.010	0.899	0.218	0.089	0.018	2.01	0.046	0.989	0.006
50	0.994	0.009	0.899	0.013	1.83	0.036	0.908	0.011	1.074	0.160	0.103	0.015	1.99	0.039	0.987	0.006
60	0.978	0.010	0.878	0.013	1.80	0.046	0.911	0.013	1.118	0.198	0.114	0.020	1.95	0.043	0.988	0.004
70	0.958	0.008	0.864	0.011	1.77	0.047	0.916	0.008	1.416	0.148	0.138	0.013	1.91	0.055	0.989	0.003
80	0.939	0.009	0.844	0.014	1.72	0.043	0.918	0.011	1.468	0.081	0.149	0.012	1.85	0.041	0.990	0.006
90	0.928	0.007	0.836	0.008	1.70	0.031	0.922	0.011	1.633	0.136	0.161	0.013	1.84	0.033	0.993	0.002
β liberal majority = 1																
10	1.091	0.009	0.983	0.002	2.04	0.042	0.933	0.007	0.921	0.659	0.090	0.063	2.13	0.072	0.974	0.025
20	1.080	0.007	0.974	0.004	1.99	0.040	0.933	0.014	2.719	0.866	0.266	0.083	2.05	0.065	0.962	0.024
30	1.065	0.007	0.962	0.004	1.95	0.038	0.937	0.009	3.183	1.006	0.308	0.091	2.00	0.045	0.960	0.016
40	1.056	0.006	0.953	0.004	1.94	0.048	0.945	0.006	3.606	0.470	0.353	0.053	1.95	0.050	0.950	0.015
50	1.052	0.009	0.946	0.004	1.90	0.028	0.950	0.006	4.223	0.420	0.422	0.038	1.88	0.062	0.940	0.022
60	1.037	0.007	0.933	0.007	1.87	0.042	0.955	0.009	4.252	0.447	0.426	0.035	1.85	0.048	0.948	0.016
70	1.037	0.007	0.932	0.007	1.84	0.037	0.953	0.005	4.899	0.256	0.496	0.036	1.83	0.048	0.948	0.013
80	1.031	0.009	0.926	0.010	1.81	0.022	0.954	0.008	5.320	0.496	0.543	0.038	1.82	0.026	0.958	0.009
90	1.039	0.012	0.939	0.007	1.76	0.025	0.954	0.008	6.486	0.570	0.625	0.063	1.78	0.034	0.965	0.009
β liberal minority = 1																
10	1.094	0.008	0.983	0.003	1.97	0.072	0.908	0.010	5.033	0.988	0.513	0.107	1.59	0.179	0.734	0.087
20	1.073	0.009	0.969	0.007	1.91	0.038	0.907	0.006	4.965	0.937	0.476	0.075	1.83	0.141	0.869	0.057
30	1.068	0.010	0.961	0.006	1.88	0.036	0.906	0.009	5.353	0.700	0.532	0.051	1.77	0.159	0.852	0.077
40	1.055	0.010	0.948	0.006	1.85	0.034	0.905	0.011	5.352	0.556	0.538	0.044	1.83	0.074	0.892	0.036
50	1.049	0.007	0.945	0.009	1.81	0.039	0.910	0.009	5.775	0.646	0.569	0.049	1.82	0.090	0.913	0.036
60	1.041	0.006	0.939	0.005	1.79	0.036	0.904	0.010	5.807	0.432	0.571	0.045	1.84	0.062	0.930	0.022
70	1.035	0.007	0.933	0.008	1.74	0.048	0.910	0.016	6.101	0.452	0.598	0.034	1.80	0.067	0.945	0.029
80	1.027	0.009	0.928	0.008	1.71	0.033	0.907	0.011	6.283	0.526	0.606	0.039	1.75	0.045	0.930	0.022
90	1.017	0.006	0.918	0.010	1.69	0.050	0.903	0.011	6.181	0.680	0.595	0.029	1.81	0.036	0.969	0.015