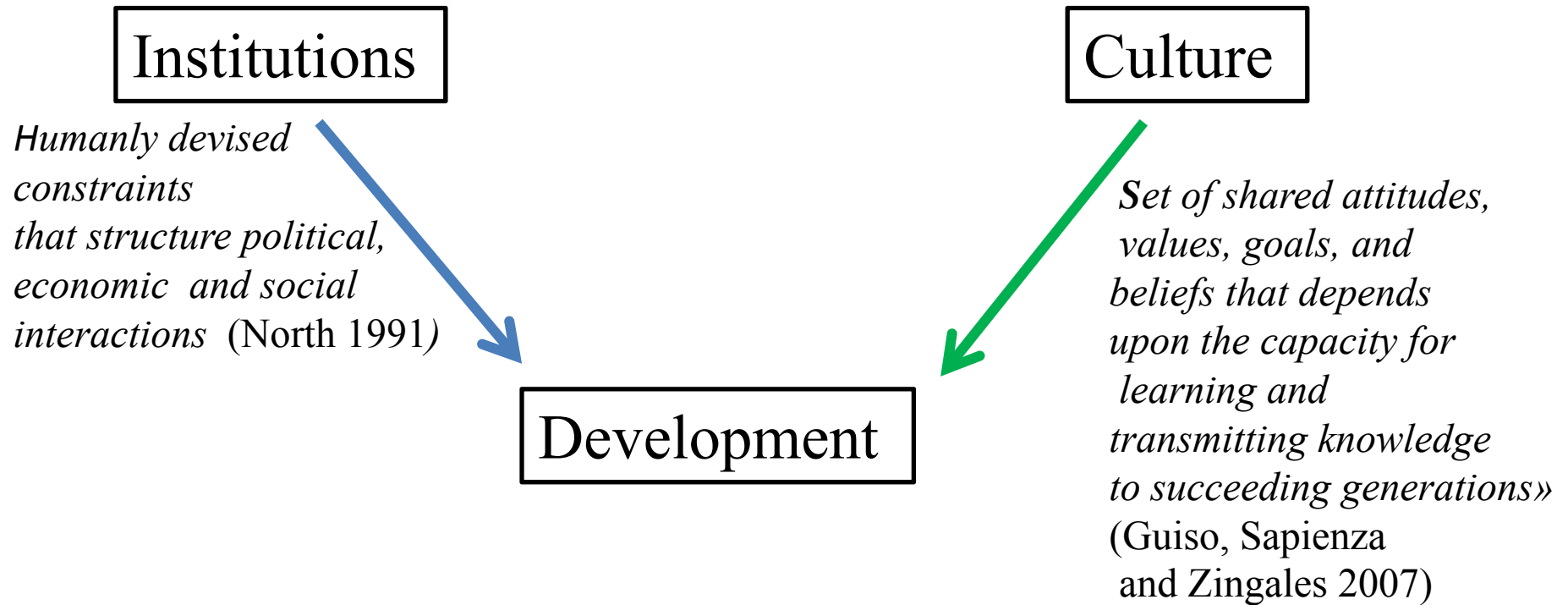


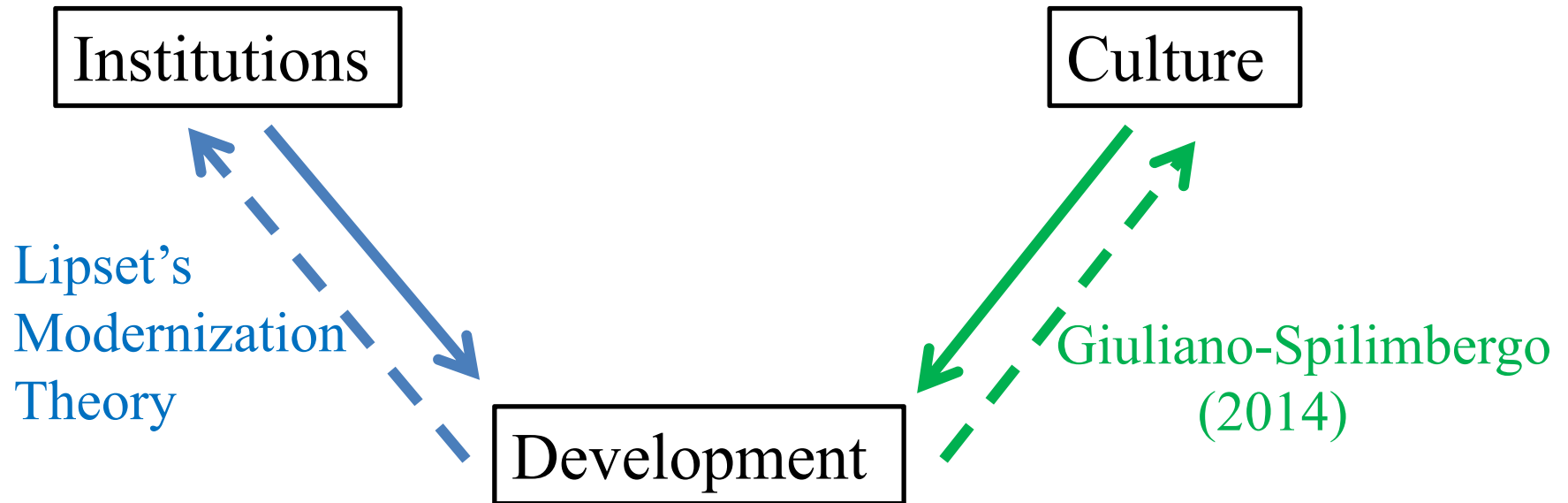
Motivation for this paper

Institutions and Culture as «Deep factors»



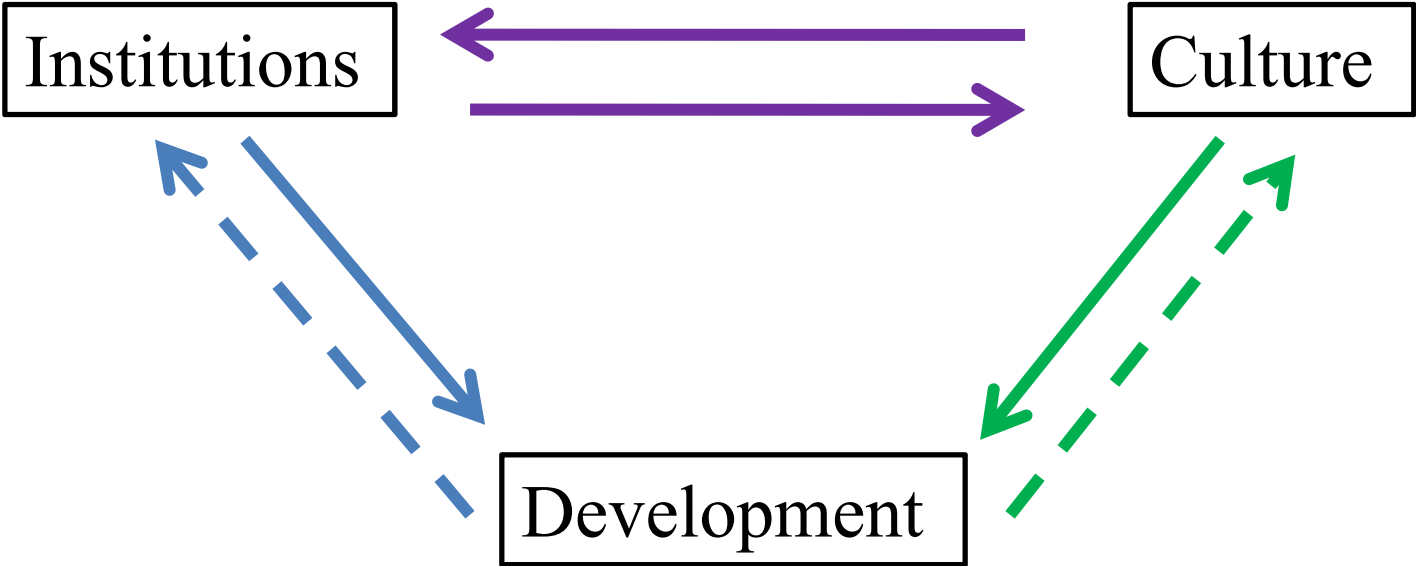
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Motivation for this paper

joint interaction of Institutions and Culture



Interactions between Institutions and Culture

- Cultural attitudes affect institutional set-up:
 - Puritans, Cavaliers, Quakers, Scots-Irish in early waves of immigration into America, (Fischer (1989));
 - Genoese and Maghrebi traders and contracts, (Greif (1994)
 - Bourgeois values behind Magna Charta etc. in Medieval England (McCloskey 2006, 2010).
 - Family/kinship structures and social systems (Schulz 2016)

Interactions between Institutions and Culture

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 - Bourgeois values behind Magna Charta etc. in Medieval England (McCloskey 2006, 2010).
 - Family/kinship structures and social systems (Schulz 2016)
- Institutions affect cultural traits:
 - Past institutions and individual values of norms of good conduct in Europe, Tabellini (2010)),
 - Attitudes towards corruption in Hong Kong after policy reform (Clark, 1987 1989; Hauk and Saez-Marti', 2002),
 - Attitudes towards redistribution and welfare states (Alesina and Angeletos, 2005; Alesina and Giuliano 2010) and in East Germany after unification (Alesina and Fuchs Schuendeln, 2005)
 - Caste system and indirect reciprocity (Hoff, Kshetramade and Fehr (2011))
 - Nation Building and cultural homogenization (Alesina and Reich (2014))
 - State centralization, and norms of rule following, propensity to cheat (Lowes, Nunn, Robinson, Weigel (2017))

Co-evolution between Institutions and Culture

- Welfare State/ Work ethic (Lindbeck 1995)
- Legal systems / norms of cooperation (Tabellini 2008)
- Regulation / Distrust (Aghion, Algan, Cahuc, Shleifer (2010))
- City states in Italy/ civic capital (Guiso, Sapienza, and Zingales, 2010)
- Educational sector /Market belief (Saint Paul 2010)
- Patriarchal institutions /gender attitudes (Alesina, Giuliano and Nunn, 2011)
- Law institutions / political whig culture in XVII England (Murrell and Schmidt 2011)
- City states and clan / generalized and restricted morality in Europe and China (Greif and Tabellini 2012)
- Knowledge Institutions/ religious and scientific beliefs (Benabou, Ticchi and Vindigni 2013)
- Political institutions/ political culture (Ticchi, Vindigni and Verdier 2013, Besley and Persson 2016)
- Labor/corporate contracts and Intrinsic.corporate Values (Hiller 2010, Besley and Ghatak (2016), Besley and Persson (2016))
- Enforcement Institutions and Trust (Bidner and François 200?)
- Labor contracts /reciprocity (Belloc and Bowles (2012)),
- Guilds, Markets, Clans/ Tacit knowledge (Delacroix, Doepke, Mokyr, 2017)
- State centralization/ norms of rule following (Lowe, Nunn, Robinson, Weigel 2017)
- Empirical survey (Alesina and Giuliano 2015)

What this paper does ?

- Provide a simple formal *tractable* framework

Institutional change  Cultural Change

- Institutions solve **externalities/commitment** issues that are influenced by cultural traits.
- Diffusion of traits is affected by incentives/ policies induced by institutions
- Dynamic complementarity /Substituability effects

What this paper does ?

- Role of initial conditions/ oscillations / cycles
- Comparative dynamics between institutions/culture:
« Cultural » and « Institutional » multipliers
- Co-evolution between
« Goal-oriented » and evolutionary changes
- Tractable abstract set-up :
Stylized examples of social interaction problems:
 - redistribution / public good / externalities
 - occupational choices / investments / cooperation

Institutional Change


A simple mechanism design approach :

- Institutions designed to resolve a commitment/internalization problem associated to a policy choice

- Current institutions « choose » future institutions

Cost : change of « de jure » power from point of view of current institutional system


Gain: Internalization/commitment value

 institutional persistence

- Institutional change depends on cultural composition of society

culture  institutional change

Cultural Change

- Intergenerational cultural transmission
- « Cultural selection » depends :
 - on current cultural profile  persistence
 - on equilibrium policy outcomes

Institutions and
policy outcomes  cultural change

A general set-up

- A society of homogeneous groups in terms of relevant characteristics, e.g., preferences (including cultural traits), resources, and technologies.
- Action of agents of group i : a^i $\mathbf{a} = \{a^i\}$
- The (vector of) economic policies in society: p
- Agents of group i have preferences represented by an indirect utility function:

$$u^i(a^i, p; A(\mathbf{a}), \mathbf{q})$$

where $A(\mathbf{a})$ captures indirectly an externality based on aggregator of actions \mathbf{a}

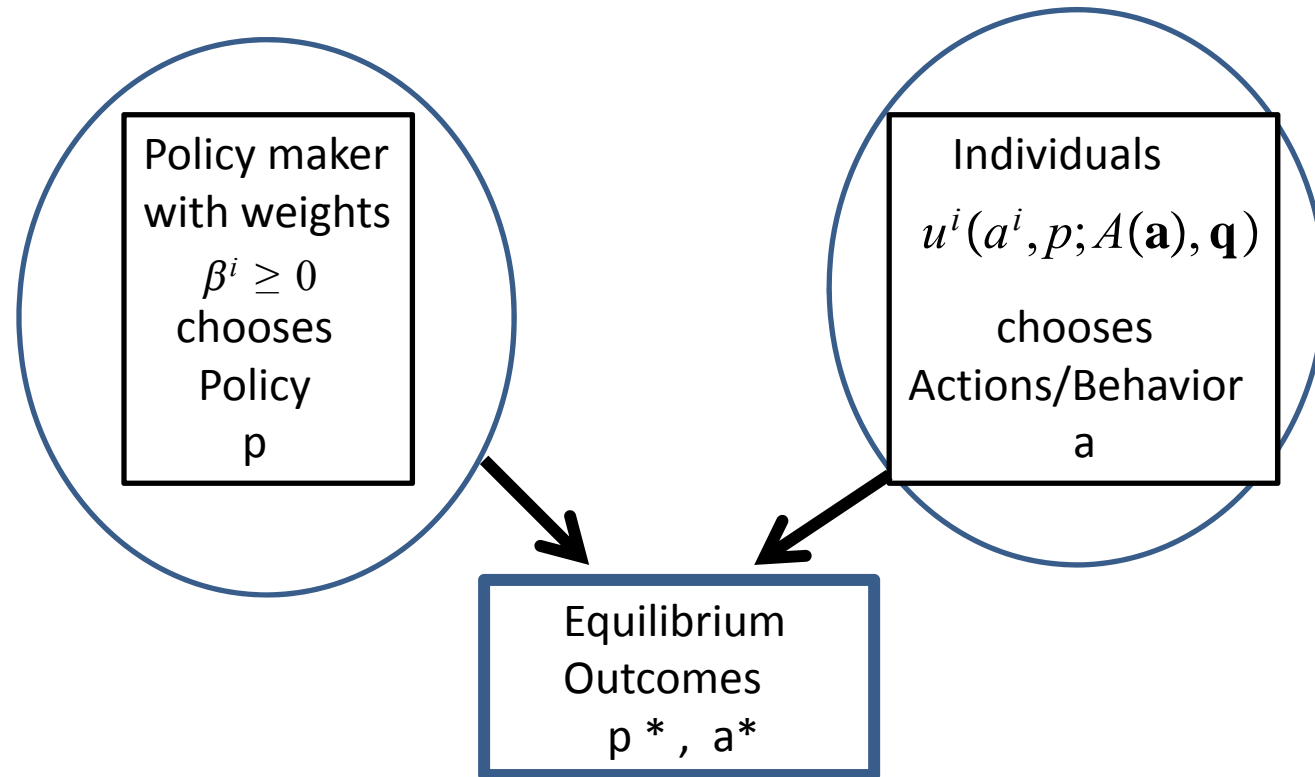
Institutions and social equilibrium

- Identify institutions with weights in a social choice problem which determines policies:

weight associated to each group i : $\beta^i \geq 0$

normalized so that: $\sum_i \beta^i = 1$

Policy game:



Institutions and social equilibrium

- *A societal equilibrium* given institutions β and the cultural population \mathbf{q} :

Nash equilibrium of the policy game: $\{\mathbf{a}, p\}$

$$p \in \arg \max_{p'} \sum_i \beta^i u^i(a^i, p'; A(\mathbf{a}), \mathbf{q})$$

$$a^i \in \arg \max_a u^i(a, p; A(a, \mathbf{a}^{-i}), \mathbf{q}) \quad i \in I$$

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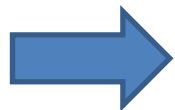
$$a^i \in \arg \max_a u^i(a, p; A(a, \mathbf{a}^{-i}), \mathbf{q}) \quad i \in I$$

- *A societal commitment equilibrium* given institutions β and the cultural distribution \mathbf{q} :

Stackelberg Nash equilibrium of same policy game, where policy maker is assumed to be the leader: $\{\mathbf{a}^{com}, p^{com}\}$

$$\{\mathbf{a}^{com}, p^{com}\} \in \arg \max_{p'} \sum_i \beta^i u^i(a^i, p'; A(\mathbf{a}), \mathbf{q})$$

$$s.t. \quad a^i \in \arg \max_a u^i(a, p, A(a, \mathbf{a}^{-i}), \mathbf{q}), \quad i \in I$$



commitment/internalization issue on the part of the policy maker

Institutions and social equilibrium

- Societal equilibrium

$$[\mathbf{a}(\beta, \mathbf{q}), p(\beta, \mathbf{q})]$$



- Societal equilibrium payoffs:

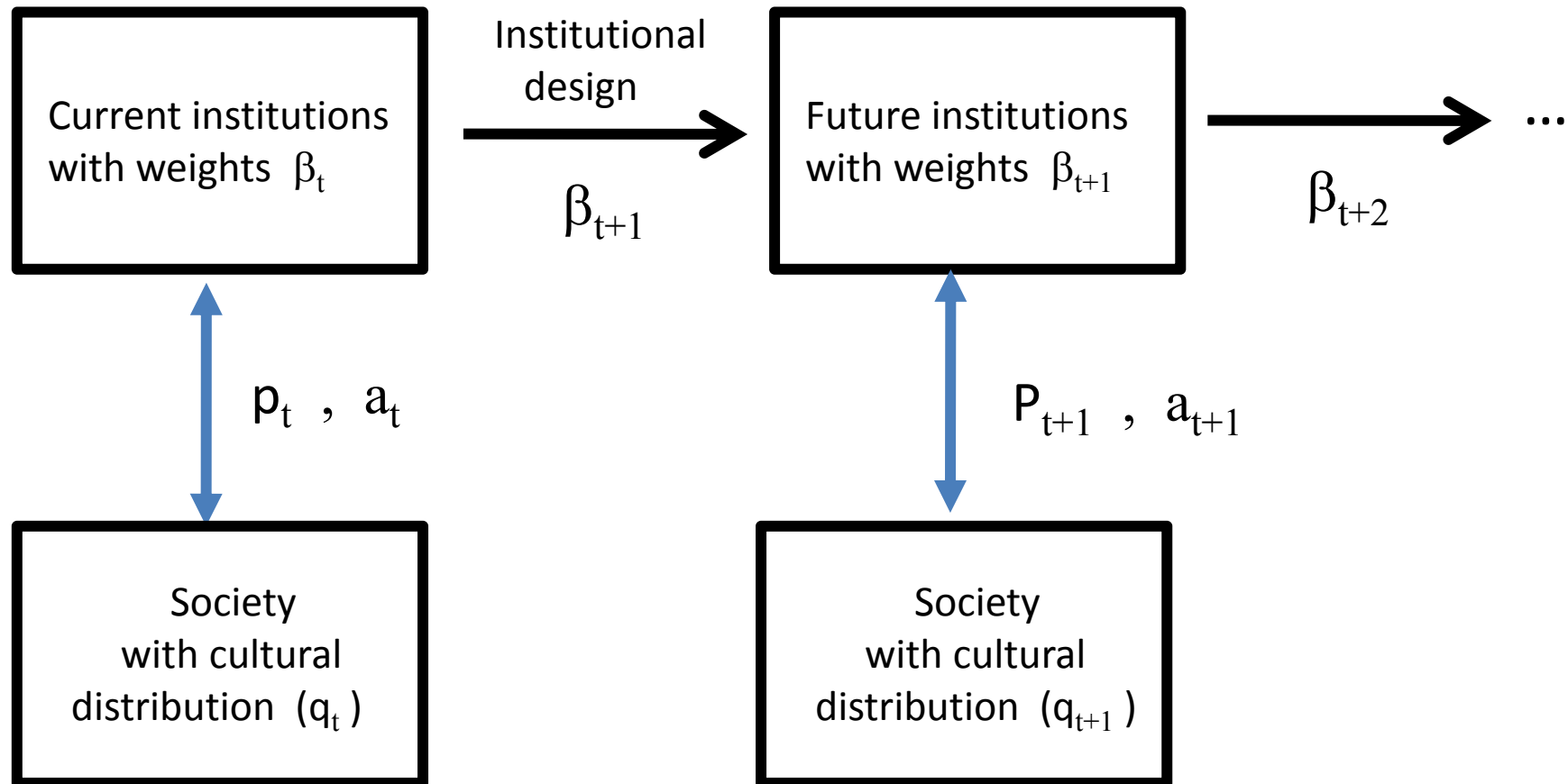
$$U^i(\beta, \mathbf{q}) = u^i(a^i(\beta, \mathbf{q}), p(\beta, \mathbf{q}); A(\mathbf{a}(\beta, \mathbf{q})), \mathbf{q})$$

- Societal commitment equilibrium :

$$[\mathbf{a}^{com}(\beta, \mathbf{q}), p^{com}(\beta, \mathbf{q})]$$

The dynamics of institutions (given cultural distribution)

- Future institutional set-up : set by current institutional set-up:



The dynamics of institutions (given cultural distribution)

- Future political and economic institutions are set (myopically) by the present institutional set-up:

The dynamics of institutions is determined by:

$$\max_{\beta_{t+1}} V(\beta_t, \beta_{t+1}, q_{t+1}) = \sum_i \beta_t^i U^i(\boldsymbol{\beta}_{t+1}, \mathbf{q}_{t+1})$$

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$$\max_{\beta_{t+1}} V(\beta_t, \beta_{t+1}, q_{t+1}) = \sum_i \beta_t^i U^i(\beta_{t+1}, \mathbf{q}_{t+1})$$

- Current institutions β_t induce the choice $p(\beta_t, \mathbf{q}_{t+1})$ at equilibrium but they prefer policy outcome $p^{com}(\beta_t, \mathbf{q}_{t+1})$

- set ("delegate to") institutions β_{t+1} such that:

$$p(\beta_{t+1}, \mathbf{q}_{t+1}) = p^{com}(\beta_t, \mathbf{q}_{t+1})$$

- Whenever this is not possible, set ("delegate to") institutions ensuring at equilibrium a policy choice p as close as possible to $p^{com}(\beta_t, \mathbf{q}_{t+1})$

The dynamics of institutions: Characterization

- “Current institutions” designs institutional change to “solve” own commitment policy problem

“ de jure” delegation to new set of institutions

- Constrained efficiency gains from incremental institutional change
- Optimal political delegation: residual decision rights over policy to groups most likely to internalize social/political externalities

The dynamics of institutions: Characterization

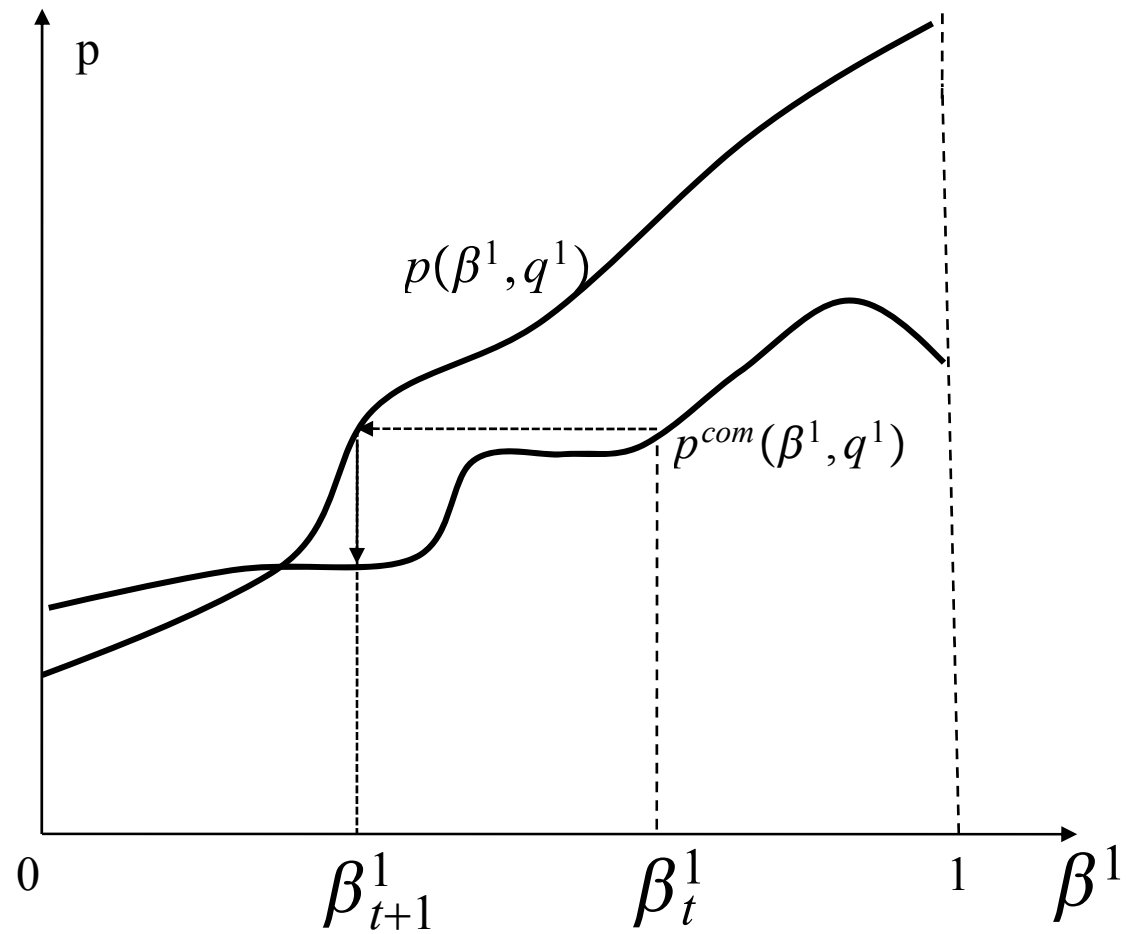
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- Constrained efficiency gains from incremental institutional change
- Optimal political delegation: residual decision rights over policy to groups most likely to internalize social/political externalities
- For 2 groups : unidimensional institutional change β

- When $p(\beta, \mathbf{q})$ is monotonic in β , complete stability analysis of the dynamics of institutions depends on structure of the set of zeros of the function

$$P(\beta, \mathbf{q}) := p(\beta, \mathbf{q}) - p^{com}(\beta, \mathbf{q})$$



Institutional Change

The dynamics of culture

- A model of socialization / cultural transmission
- Transmission of values : Parents and Society
Economic Interactions
Evolutionary Dynamics

Bisin and Verdier (2001, 2010), Cavalli- Sforza and Feldman (1973, 1981) ,
Boyd and Richerson (1985)

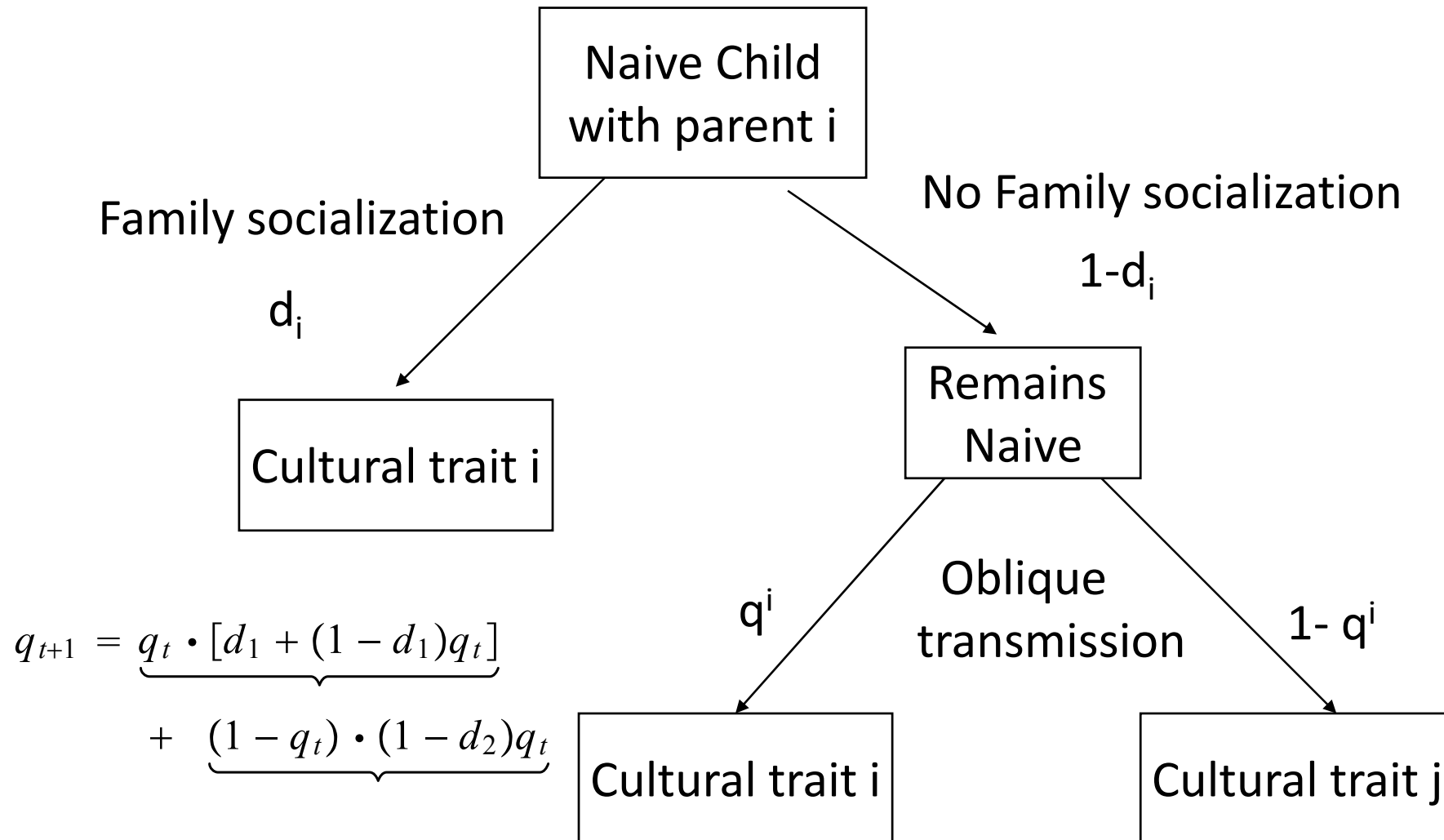
- Replicator Dynamics of populations :

$$q_{t+1}^i - q_t^i = q_t^i \cdot \sum_{j \neq i} q_t^j (d_t^i - d_t^j)$$

- Endogenous socialization rates: $d^i = d(\mathbf{q}, \Delta V^i(\boldsymbol{\beta}, \mathbf{q}))$
opportunity costs/ social structure/ paternalistic motivations
(institutions of cultural transmission)

Simple two trait model of Cultural Transmission

(Bisin and Verdier 2001)



Simple two trait model of Cultural Transmission

$$\dot{q}_t = q_t(1 - q_t) \cdot (d_1 - d_2)$$

2 traits , 1,2: Utility functions : $U_1(\mathbf{x})$; $U_2(\mathbf{x})$

Optimal behaviors : $\mathbf{x}_1(\cdot)$ $\mathbf{x}_2(\dots)$

$$d_1 \in \arg \max \left\{ [d_1 + (1 - d_1)q_t]U_1(\mathbf{x}_1) + (1 - d_1)(1 - q_t)U_1(\mathbf{x}_2) - C(d_1) \right\}$$

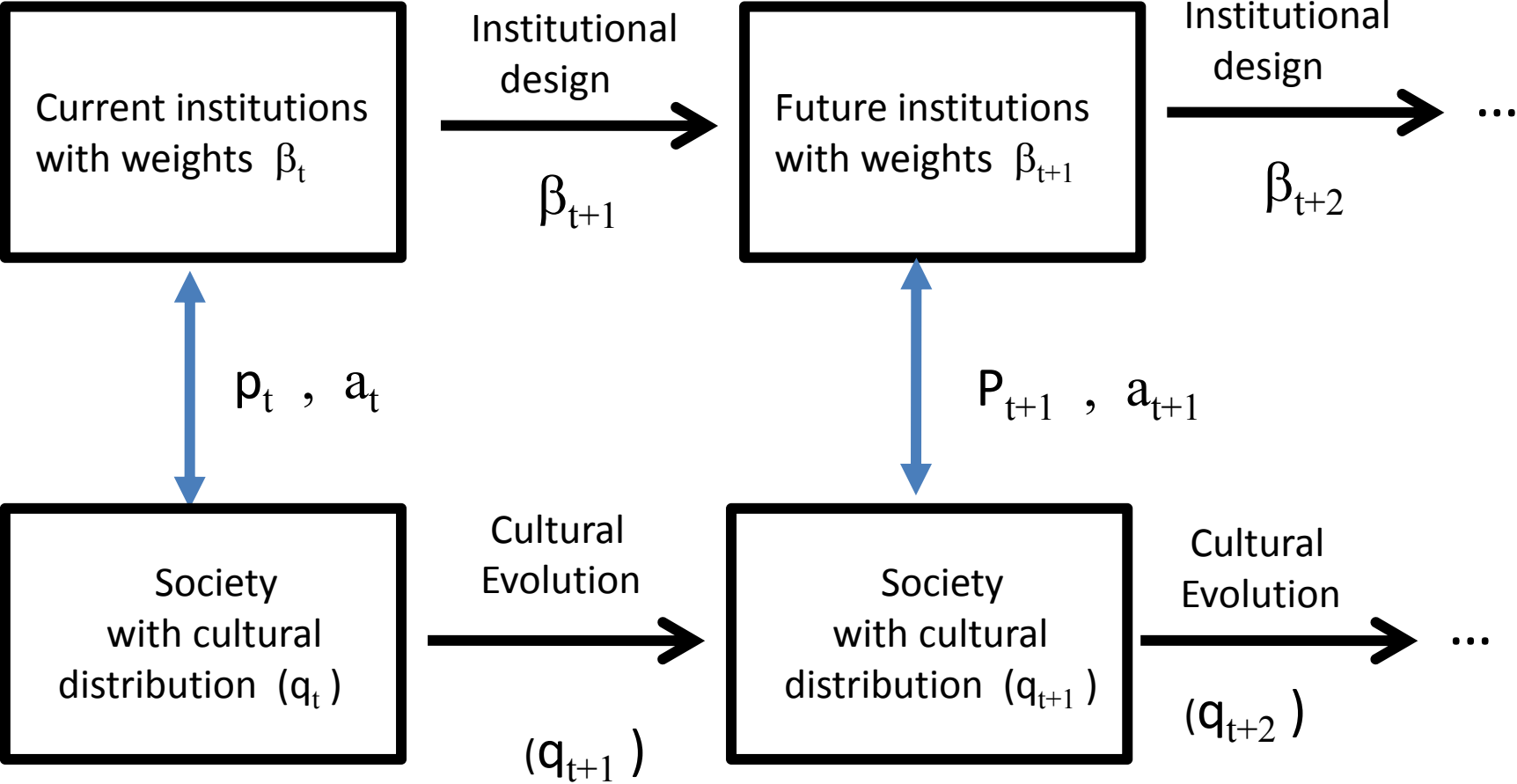
$$d_2 \in \arg \max \left\{ [d_2 + (1 - d_2)(1 - q_t)]U_2(\mathbf{x}_2) + (1 - d_2)q_tU_2(\mathbf{x}_1) - C(d_2) \right\}$$

Optimal socialization : $C'(d_1) = (1 - q_t)\Delta V^1$, $C'(d_2) = q_t\Delta V^2$

Paternalistic motivations : $\Delta V^1 = U_1(\mathbf{x}_1) - U_1(\mathbf{x}_2)$
 $\Delta V^2 = U_2(\mathbf{x}_2) - U_2(\mathbf{x}_1)$

Optimal transmissions : $d_1[\Delta V^1(\cdot)]$ Steady states : $\frac{q}{1-q} = \frac{\Delta V^1(\cdot)}{\Delta V^2(\cdot)}$
 $d_2[\Delta V^2(\cdot)]$

On the joint dynamics of culture and institutions



On the joint dynamics of culture and institutions

- System for 2 political groups / 2 cultural traits

$$\beta_{t+1} = \begin{cases} \beta \text{ such that } p^{com}(\beta_t, q_{t+1}) = p(\beta, q_{t+1}) \\ \left[\begin{array}{l} 1 \text{ if } p^{com}(\beta_t, q_{t+1}) > p(\beta, q_{t+1}), \quad \forall 0 \leq \beta \leq 1 \\ 0 \text{ if } p^{com}(\beta_t, q_{t+1}) < p(\beta, q_{t+1}), \quad \forall 0 \leq \beta \leq 1 \end{array} \right. \end{cases}$$

$$q_{t+1} - q_t = q(1 - q_t)D(\beta_{t+1}, q_{t+1}).$$

On the joint dynamics of culture and institutions

- The dynamical system has at least one stationary state
 - Dependence on initial conditions
 - Dynamic complementarities/substituabilities
-
- At a locally stable interior steady state (β^*, q^*) local dynamics of culture /institutions show no converging cycles (dampening oscillations) when institutional and cultural dynamics are complements.
 - Existence of stable converging oscillations when institutional and cultural dynamics are substitutes, and intermediate range of relative rates of change between culture and institutions
 - Comparative dynamics: Cultural/institutional multipliers

Some Examples

- Elites, bourgeois culture and Extractive institutions
- Civic capital and democratization
- Culture of Violence and property rights protection
- Modernization and time preferences
- Work ethic and redistribution

Elite and Extractive institutions (1)

- Economy populated by a mass of workers in proportion $1-\lambda$ ($i = 1$) and Elite members in proportion λ ($i = 2$)
- Elite tax workers' income at rate p to redistribute to itself

Mass: $u^1(a^1, p) = u((1-p)a^1) + v(1-a^1)$

Elite: $\left\{ \begin{array}{l} \text{"bourgeois"}: u^{2b}(a^{2b}, T) = u(T + s + a^{2b}) + v(1 - a^{2b}) \\ \text{"aristocrat"}: u^{2a}(a^{2a}, T) = u(T + s + a^{2a}) + \theta v(1 - a^{2a}) \end{array} \right.$

« bourgeois » : proportion q / « aristocrats » proportion $1-q$

- Subsistence endowments : $s^1 = 0$ and $s^2 = s > 0$
- Survival consumption level : $c \geq \bar{c}$ (not binding for Elite $s > \bar{c}$)

Elite and Extractive institutions (2)

- Policy maker objective function:

$$W(\beta, \mathbf{a}, p, T, q) = \beta \cdot u^1(a^1, p) \\ + (1 - \beta) \cdot [qu^{2b}(a^{2b}, T) + (1 - q)u^{2a}(a^{2a}, T)]$$

$$T = pa^1 \frac{1-\lambda}{\lambda}$$

- Mass effort: $a^1(p)$ 2 regimes:
 - “non extractive” regime: survival constraint is not binding
 - “extractive regime” where the survival constraint is binding

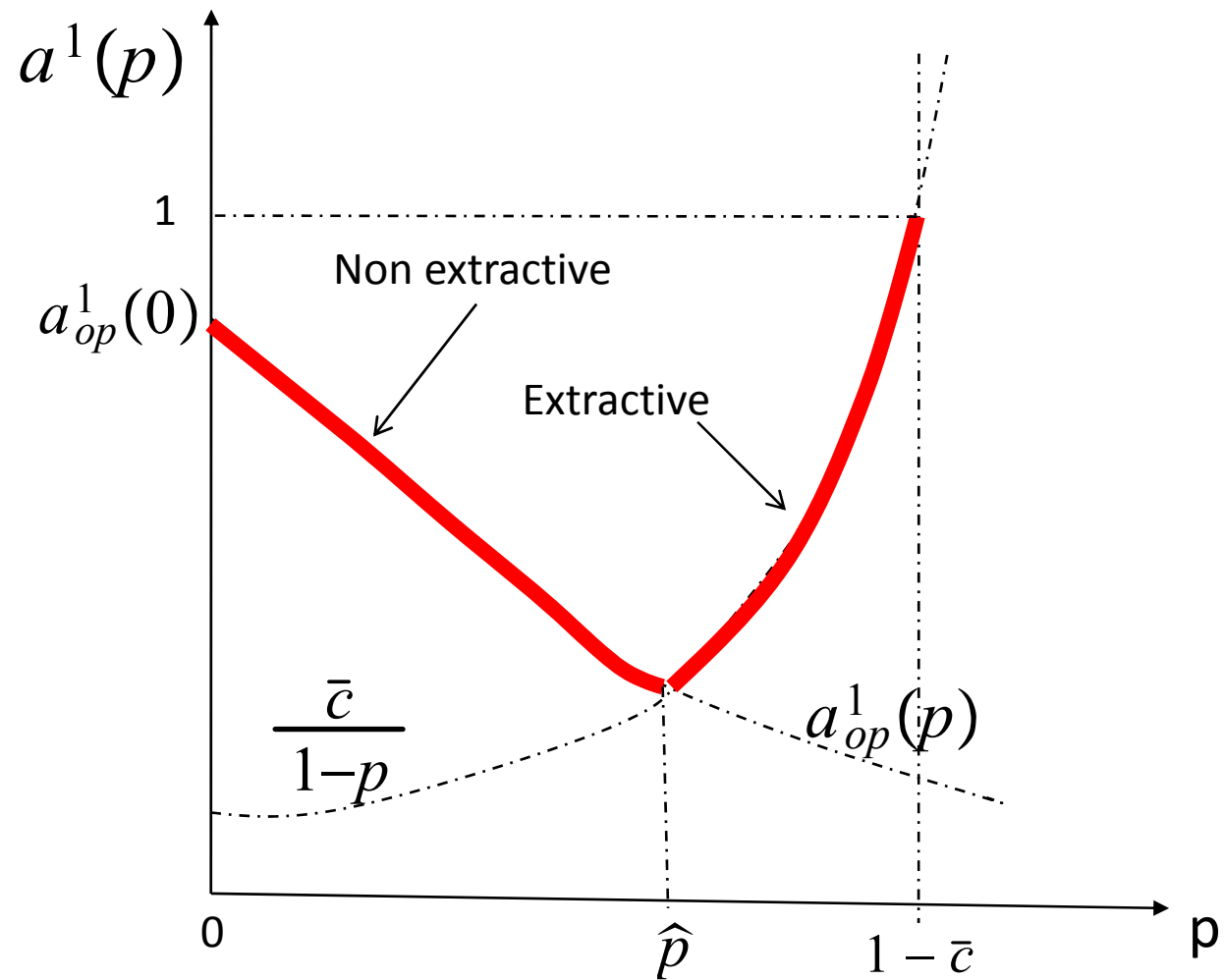


Figure 1: : Elite, Workers and Extractive institutions
Optimal Effort of the Mass workers

Elite and Extractive institutions (3)

- optimal behavior of a "bourgeois" elite member : $a^{2b}(T)$
an "aristocrat" elite member : 0 $(\theta > \frac{u'(s)}{v'(1)})$

- Societal equilibrium policy* $p(\beta, q)$:

$$p \in \arg \max_{p \in [0, 1-\bar{c}], T \geq 0} W(\beta, \mathbf{a}, p, T, q)$$

$$T = pa^1 \frac{1-\lambda}{\lambda}$$

for given $\mathbf{a} = (a^1, a^{2b}, a^{2a})$

$$a^1 = a^1(p); \quad a^{2b} = a^2(T), \quad a^{2a} = 0 \quad \text{and} \quad T = pa^1 \frac{1-\lambda}{\lambda}$$



$$p = p(\beta, q)$$

Decreasing in β and q

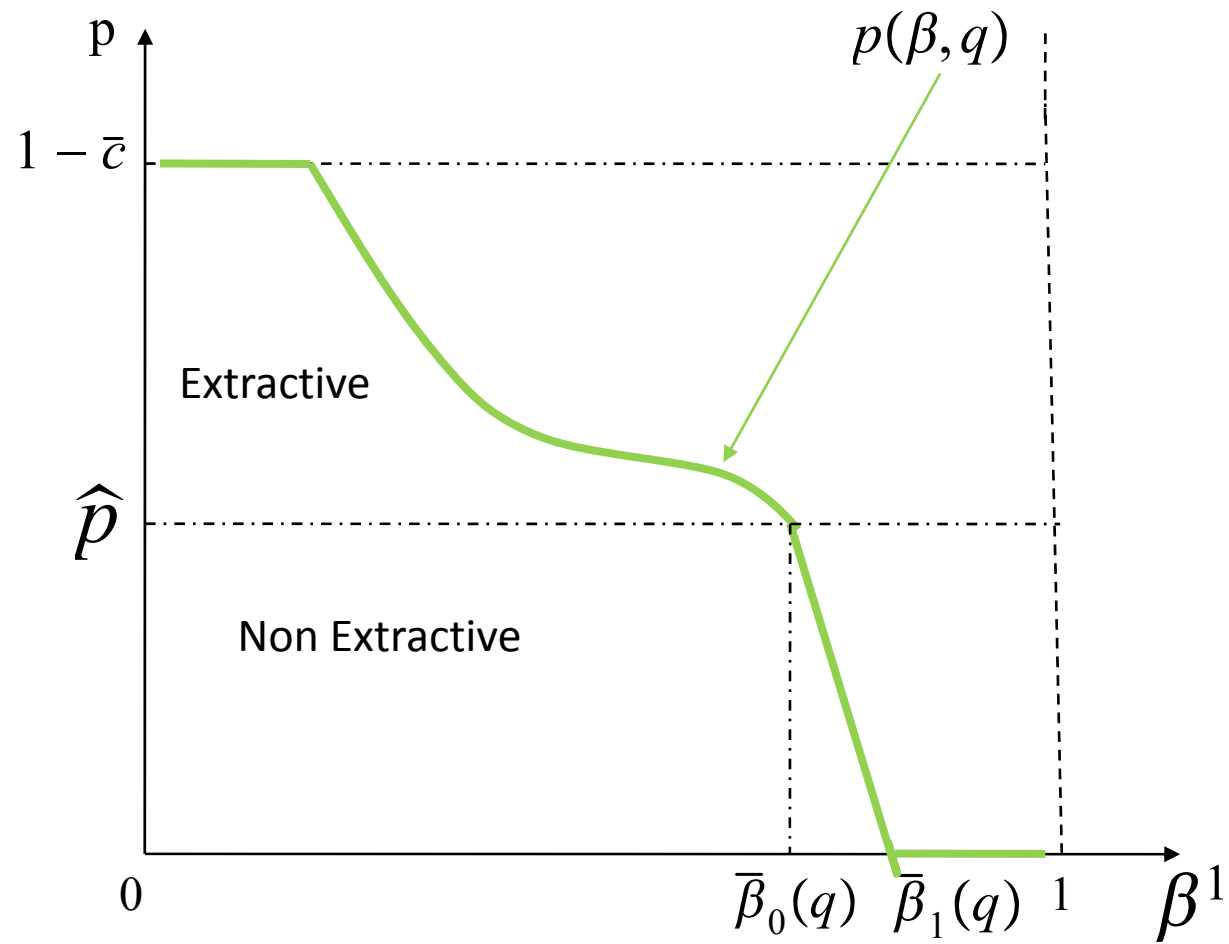


Figure 2: Elite, Workers and Extractive institutions
Societal Equilibrium Policy

Elite and Extractive institutions (4)

- *Societal commitment equilibrium policy* $p^{com}(\beta, q)$:

$$p \in \arg \max_p \tilde{W}(p, \beta, q) = W(\beta, \mathbf{a}(p), p, T(p), q)$$

$$\mathbf{a}(p) = (a^1(p), a^2(T(p)), 0) \text{ and } T(p) = pa^1(p) \frac{1-\lambda}{\lambda}$$



$$p^{com}(\beta, q)$$

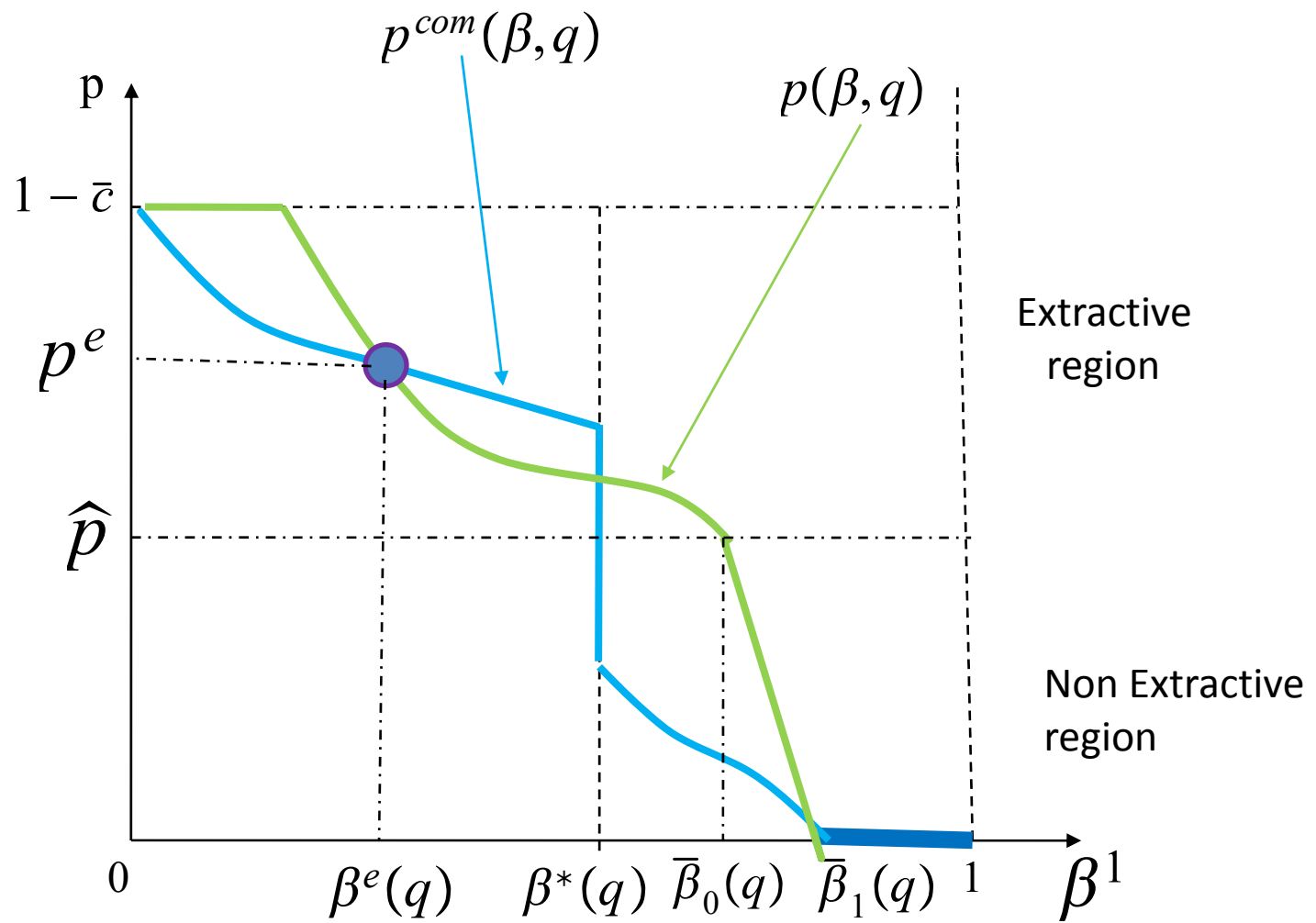


Figure 2: Elite, Workers and Extractive institutions
Equilibrium Policies

Elite and Extractive institutions (5)

- Non extractive regime: $p^{com}(\beta, q) < p(\beta, q)$
 - internalization of disincentive effect of taxation on tax base
- Extractive regime:
 - internalization of (by now) positive effect of taxation on workers' effort and tax base $\longrightarrow p^{com}(\beta, q) > p(\beta, q)$
 - internalization of taxation effect on survival binding constraint: workers are forced to remain on survival binding constraint (not their best effort) $\longrightarrow p^{com}(\beta, q) < p(\beta, q)$

Elite and Extractive institutions (6)

- Institutional dynamics :
 - Multiple institutional steady states:
 - low power to the workers in extractive regime
 - high power to the workers in non extractive regime
 - Dependence on initial conditions:
 - Low initial workers' representation → extractive regime
 - High initial workers' representation → non extractive regime

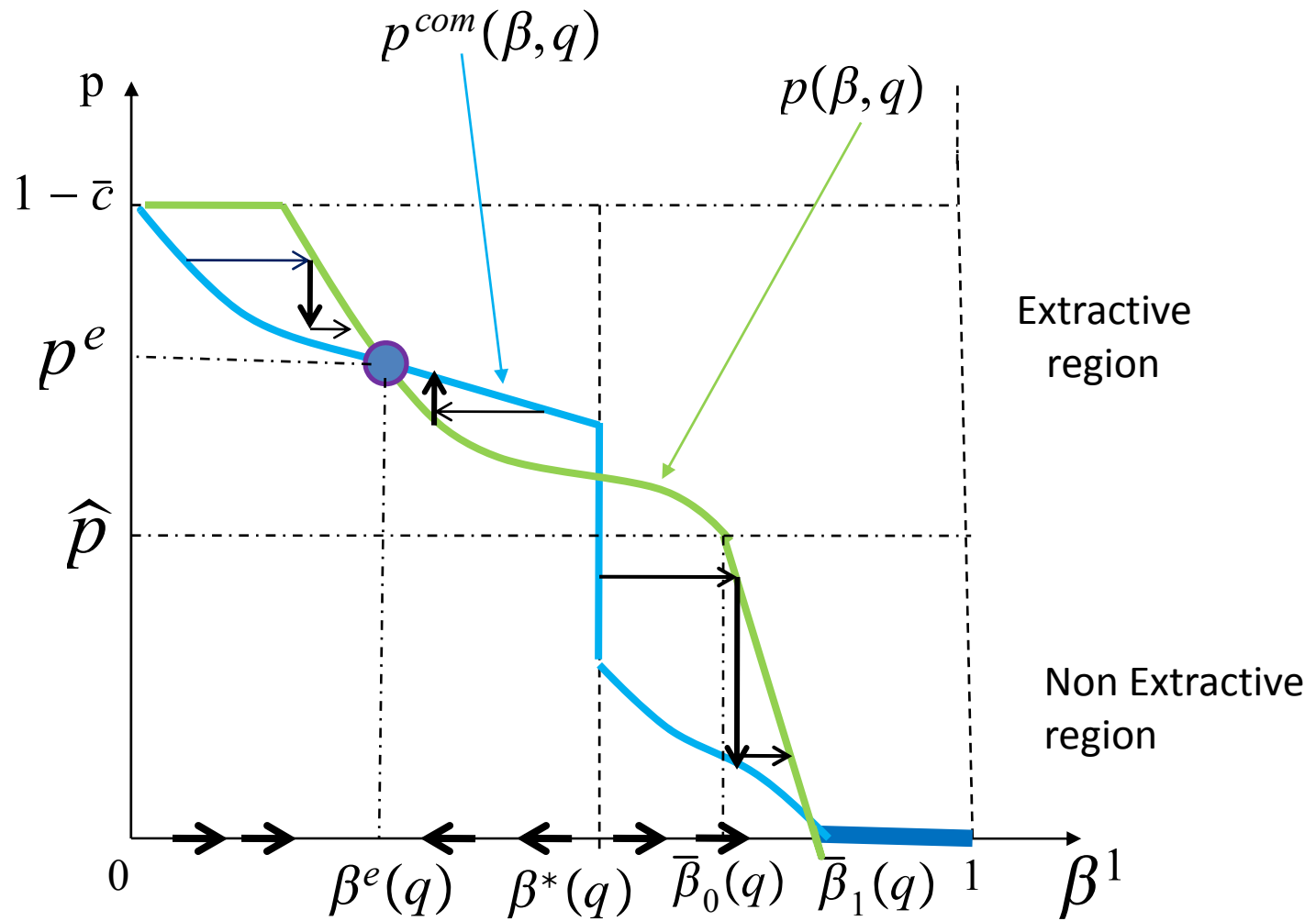
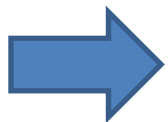


Figure 2: Elite, Workers and Extractive institutions
Equilibrium Policies and Institutional Dynamics

Elite and Extractive institutions (7)

- Cultural dynamics:
 - Intergenerational cultural socialization within own group.
 - Children of workers have workers' preferences
 - Elite group : diffusion of "bourgeois" vs "aristocratic values
 - Cultural socialization incentives: "bourgeois" vs "aristocrat"
 - When the elite enjoys larger rents because of p ,
"aristocratic" preferences tend to have a cultural evolutionary advantage compared to "bourgeois" work oriented values.
- As $p(\beta, q)$ is decreasing in institutional weight β of workers,



the more influential workers are in society,
the larger the diffusion of "work-oriented" values

Dynamic Complementarity vs Substituability

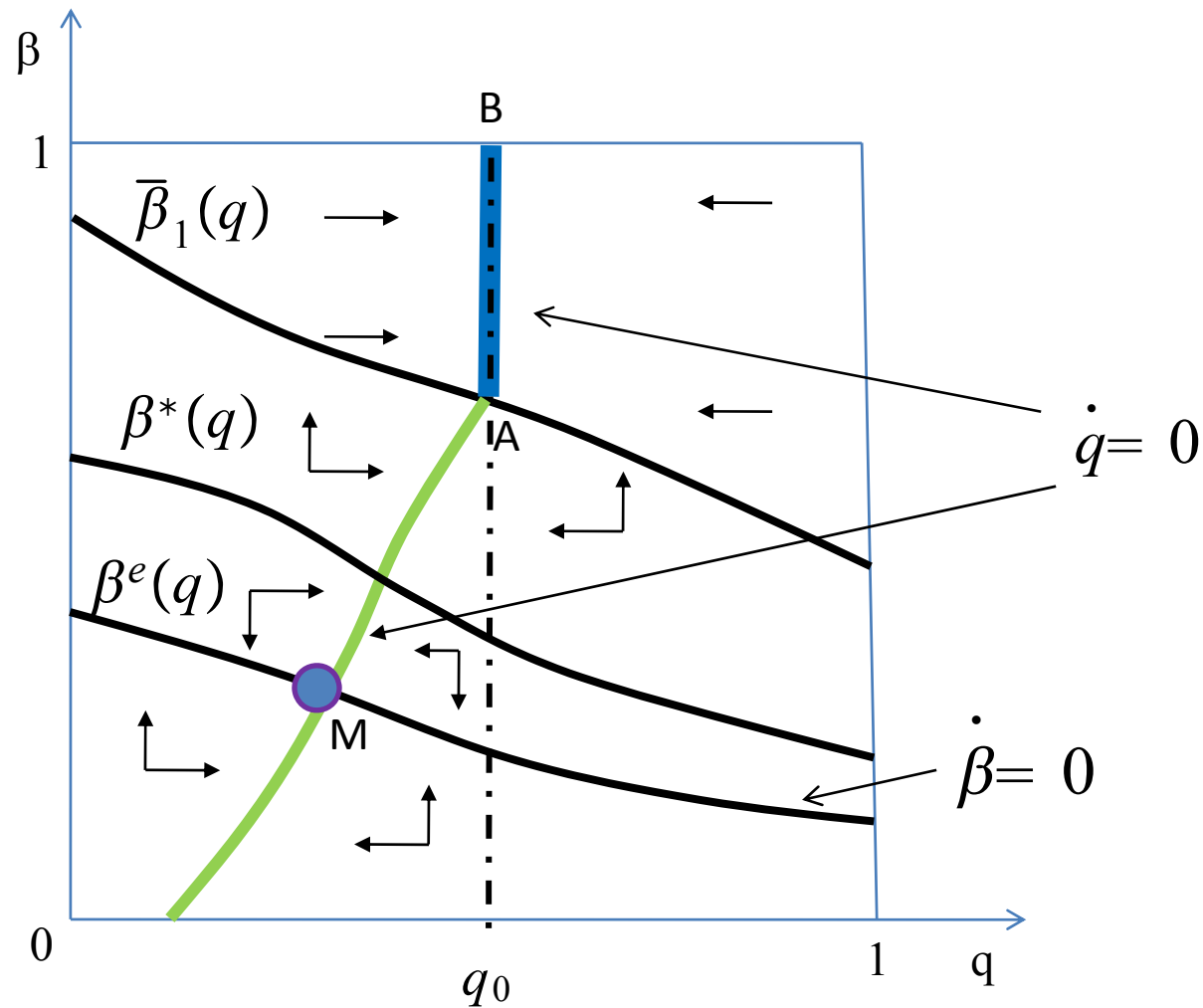


Figure 3: Elite, Workers and Extractive institutions
Phase Diagram Coevolution institutions-culture

Comparative dynamics : Exogenous institutional shock

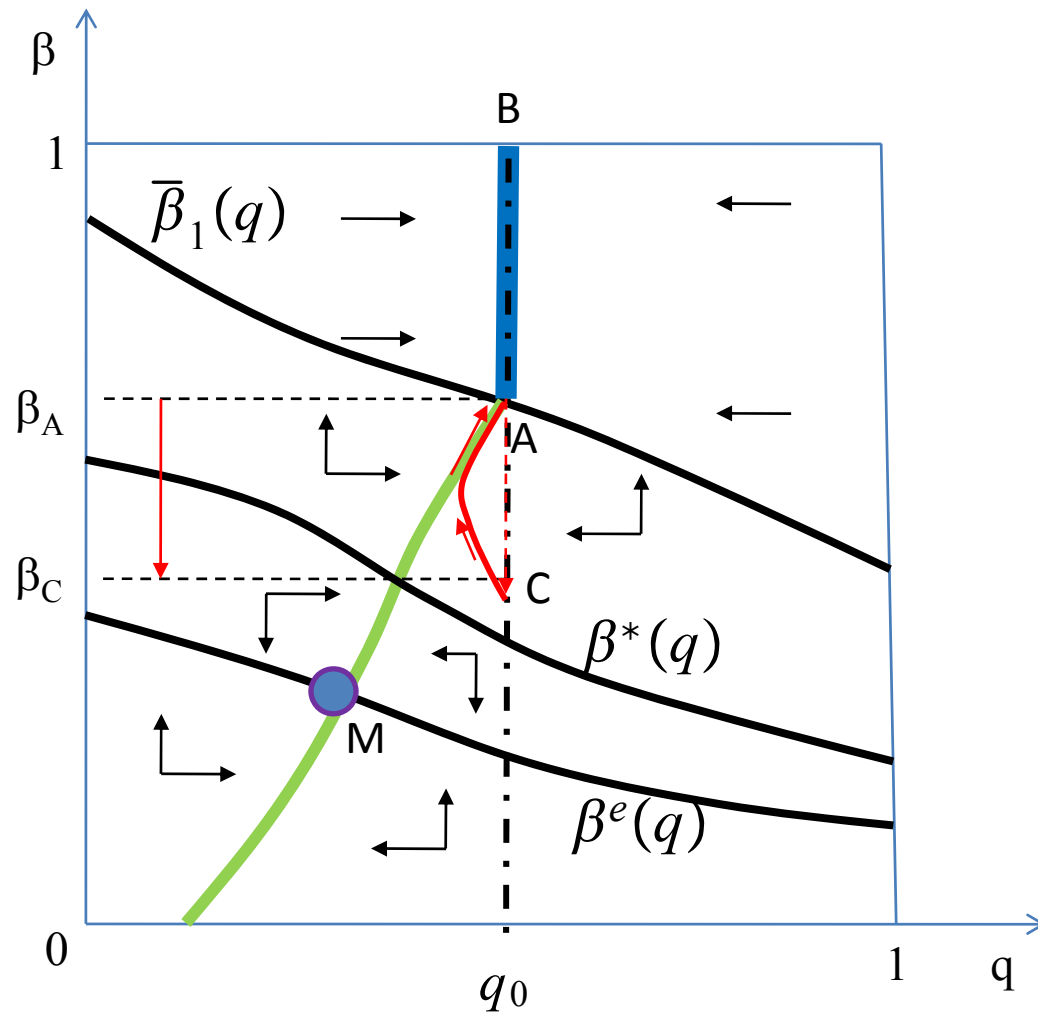


Figure 4: Elite, Workers and Extractive Institutions Shock, Transition and Co-evolution of Institutions and Culture

Conclusions

- Institutional and Cultural co-evolution : a tool box model to analyse joint process
- Complementarity or substitutability: other examples
education investment /redistribution/ work ethic
property right protection and conflict-prone preferences
- Religious Elites and Political Legitimacy (Bisin, Seror and Verdier 2018)
- Institutional evolution :
 - Myopic vs forward looking
 - De facto /de Jure Power
 - Centralized design vs Decentralized (evolutionary)
 - Institutional strategic interdependences
- Cultural evolution :
 - Coordinated vs Evolution: structured populations
 - Multi-level selection processes (group selection and institutions)

Property Rights and Conflict (1)

- Social Context where agents contest each other's resources
- How a “culture of Honor” (propensity to act violently) interacts with development of legal system for protection of property rights ? (Nisbett (1993), Cohen and Nisbett (1994), Grosjean (2014)).
- Agents are matched randomly in a contest for their own endowment.
- Relative effort determines the probability of success to win part of endowment not protected by property rights.
- Cultural group more prone to violence: lower cost of violent effort
- Property right protection: policy variable.
 - favored by group less prone to violence,
 - may be favored also by more prone to violence group when its fraction in the population is large enough.

Property Rights and Conflict (2)

- Political and cultural groups are aligned.
- Group $i=1$ is more prone to violent conflict: fraction q
- Marginal cost of violent effort c^i for $i=1,2$: $c^1 < c^2$
 $\alpha = (c^2 - c^1)/c^1$
- Agent's endowment prior to the contest : $\omega > 0$
- Policy variable, p : protected fraction of each agent's endowment

- Agent h matching with agent k : violent efforts a^{hk} and a^{kh}
proba for h of winning contest : $\frac{a^{hk}}{a^{hk} + a^{kh}}$

winner of contest appropriates $2(1-p)\omega$ units of consumption good
contest is complete information game

- Nash equilibrium efforts of agent of type i in contest with agent type j :

$$a^{ij} = 2(1-p)\omega \frac{c^j}{(c^i + c^j)^2}$$

Property Rights and Conflict (3)

- Expected payoffs of agents of group $i=1,2$:

$$G_1(p, q, a^{11}, a^{12}, a^{21}) = p\omega + q\left(2(1-p)\omega\frac{a^{11}}{a^{11}+a^{11}} - c^1 a^{11}\right) + (1-q)\left(2(1-p)\omega\frac{a^{12}}{a^{12}+a^{21}} - c^1 a^{12}\right)$$

$$G_2(p, q, a^{21}, a^{12}, a^{22}) = p\omega + q\left(2(1-p)\omega\frac{a^{21}}{a^{21}+a^{12}} - c^2 a^{21}\right) + (1-q)\left(2(1-p)\omega\frac{a^{22}}{a^{22}+a^{22}} - c^2 a^{22}\right)$$

At the Nash equilibrium efforts: $a^{ij} = 2(1-p)\omega\frac{c^j}{(c^i+c^j)^2}$

- Equilibrium Payoffs $\Omega_1(p,q)$ and $\Omega_2(p,q)$:

For violence prone individuals $\Omega_1(p,q)$: decreasing in q ,
 increasing in p if $q \geq \tilde{q}(\alpha)$

For non violence prone individuals: $\Omega_2(p,q)$ decreasing in q ,
 increasing in p

- Property rights protection implementation cost : $C(p)$ convex,
 increasing

Property Rights and Conflict (4)

- The societal equilibrium $p(\beta, q)$:

- Policy game for social planner:

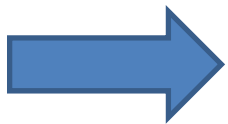
$$\max_p \beta G_1(p, q, a^{11}, a^{12}, a^{21}) + (1 - \beta) G_2(p, q, a^{21}, a^{12}, a^{22}) - C(p)$$

given $a^{11}, a^{12}, a^{21}, a^{22}$

- Nash equilibrium levels of contest efforts

$$a^{11} = \frac{2(1-p)\omega}{4c}, \quad a^{22} = \frac{2(1-p)\omega}{4c(1+\alpha)}$$

$$a^{12} = 2(1-p)\omega \frac{1+\alpha}{c(2+\alpha)^2}, \quad a^{21} = 2(1-p)\omega \frac{1}{c(2+\alpha)^2}$$




When $\beta < q$: $p(\beta, q) > 0$ with $p(\beta, q)$ decreasing in β
increasing in q

When $\beta \geq q$: $p(\beta, q) = 0$: no protection of property rights

Property Rights and Conflict (5)

- The societal commitment equilibrium $p^{com}(\beta, q)$
 - Policy game for social planner:

$$\max_p \beta \Omega_1(p, q) + (1 - \beta) \Omega_2(p, q)$$

- 
- When $q < \tilde{q}(\alpha)$ and $\beta \geq \tilde{\beta}(q)$ $p^{com}(\beta, q) = 0$
no protection of
property rights

$\tilde{\beta}(q)$ increasing in q

- Otherwise $p^{com}(\beta, q) > 0$ decreasing in β
increasing in q

$$- p(\beta, q) \leq p^{com}(\beta, q)$$

if $\beta_0 > \tilde{\beta}(q)$, then $\beta_{t+1} = \beta_t = \beta_0$
 if $\beta_0 < \tilde{\beta}(q)$, then $\beta_t \rightarrow 0$

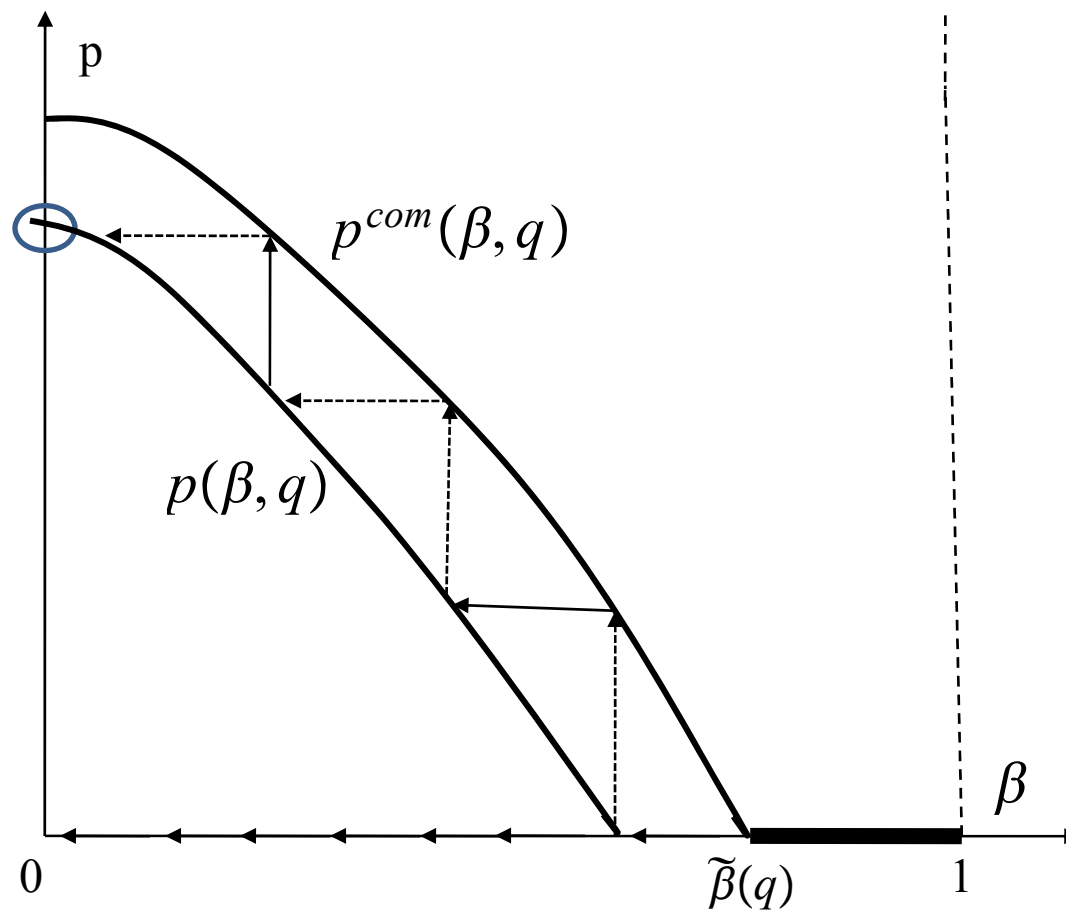


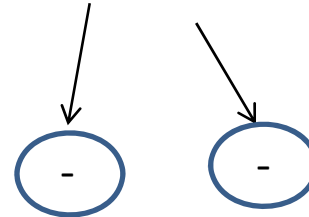
Figure 9: Property rights and conflicts
 Institutional dynamics

Property Rights and Conflict (6)

- Cultural dynamics:

Socialization incentives $\Delta V^1(p, q) > 0$ decreasing in p , decreasing in q
 and $\Delta V^2(p, q) > 0$ decreasing in p , increasing in q

steady state condition: $\frac{\Delta V^1}{\Delta V^2} = \Phi(q, p(\beta, q), \alpha) = \frac{q}{1-q}$



Relative incentives for transmission of violence prone culture
 decrease with extent of violence culture
 decrease with protection of property rights

- Cultural steady state manifold: $q(\beta)$ increasing in β .
 with larger political power of violent prone group:
 more diffusion of the culture of violence

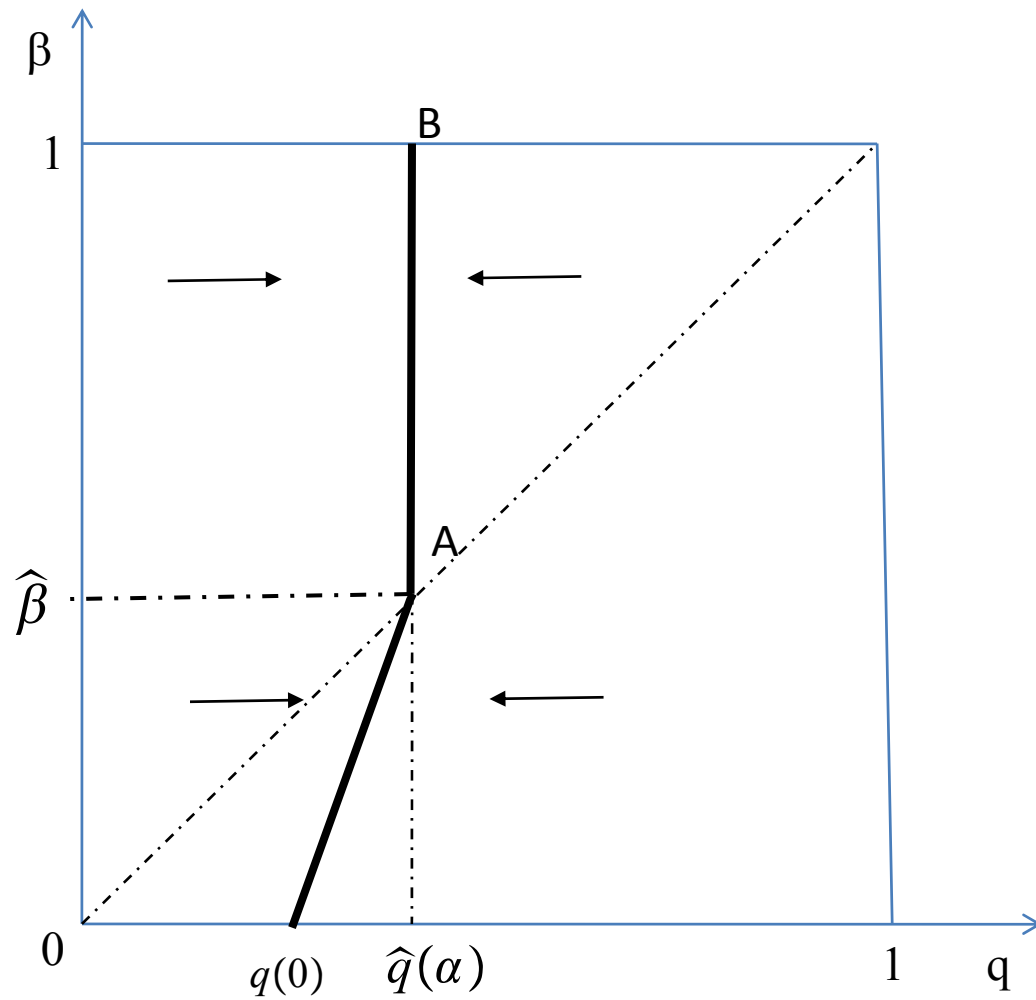


Figure 10: Property rights and conflicts
 cultural dynamics (α large enough)

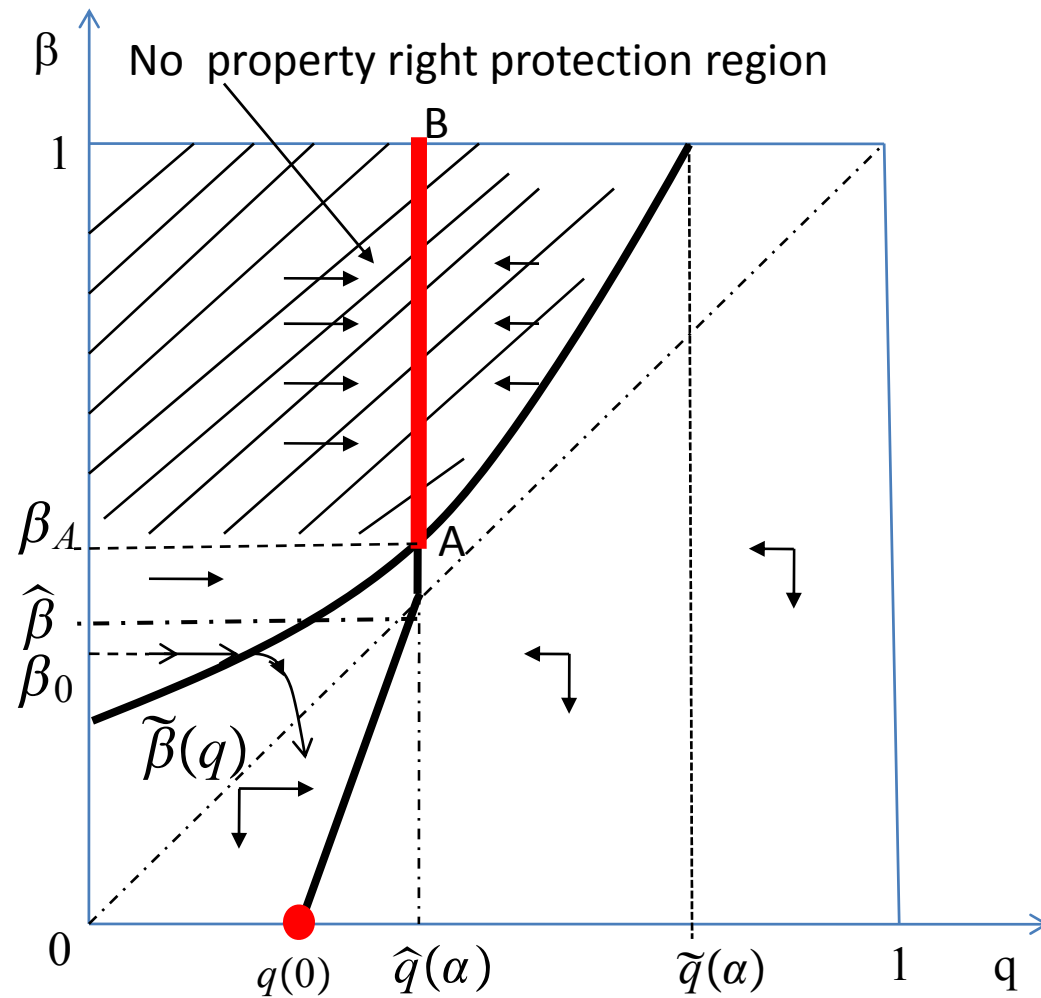


Figure 10: Property rights and conflicts

Joint dynamics (α large enough)

$$\alpha = \frac{c_2}{c_1} - 1$$

Property Rights and Conflict (7)

- Conflict-prone group powerful but relatively small initially:
no institutional dynamics/no property right protection
- Non Conflict-prone group powerful enough
property right protection/increasing power to non conflict-prone

low steady state culture of violence/ high level of protection of
property rights
- Hysteresis and non monotonic effects of institutional shocks