

in the road becomes a lot when it always zero  
we made a theoretical conclusion from the discrete share

analytical expression for  $V_A$   
using the perturbation form the whole can get an

analytical result in the form  
several methods. This is an approximation of the

2. Document in words three 3 solution methods:

$\lambda \approx 3$ , the two solutions overlap again  
 $\rightarrow$  after the step the hand is pulled up constantly and so a  
destruction

really dangerous at  $\lambda \approx 2$ , no below the analytical  
 $\rightarrow$  dangerous and without "dimensionality" (not

$\lambda =$  dangerous and unstable

Comparing 1 and 3

$\rightarrow$  the stability in global destruction is around  $\lambda \approx 2.5$   
 $\rightarrow$  numerical solution continues for more below of  $\lambda$   
 $\rightarrow$  we see that solution strongly overlap

2 = discrete-continuous solution and unstable

$\lambda =$  global solution

Comparing 1 and 2

numerical solution for the first often depends on our hand.  
look at the plot of the comparison between the explicit and the

last point.

A first model model with a discrete choice in modeling in the

Problem A

new version 200

problem set 8

discrete time map

→ calculate the discrete choice of consumers from this as "gap of most novel ex ante calculating socially given by the income effect (gap of demand effect)"  
→ thus a current situation of and from exogenous  
following Ishaković, Jevonsen, Rutz, Syj. suning (2016)

→ the communication is a source for all ~~theoretical~~ theoretical effects  
the effects given by the income effect (i.e. ex ante powerfully calculating cash-on-hand)  
→ gives you a communication policy, cash-on-hand policy  
the selection for the bounded freedom at each point and  
economically logic after the demands and constraints  
→ create a grid of savings

• usually necessary to with obviously numerous ~~discrete~~ continuous  
choose pre-dictate discrete choice

selection method 2: disaggregated and multistage  
• we can use stage to loop over a grid of choices for the retail  
and the consumer should choose in the end.  
• this gives us all possibilities for consumption and savings

• we can define the maximum selection in the budget given by  
purchase mode for purchases, return  $V_0(x_0)$  and  
allow samples and consumption  
allow samples and consumption

• the expected utility in the real world can be expressed  
using the log-sum property

• using the concept of indifference curves using logit  
among consumers one can use two cases and

• a logarithmic for the individual consumer  
by defining the utility function, we can express

• share communication policy and rules function  
• safety of fuel or global

- fuel the maxiumum value of the meter
- calculate the total function of your given
- gives a solution for the consumption policy
- for every period in the same grid:

### Solution method A ("backward V")

→ This is modelled because recursively get the value -  
fundation in the EGM step.

→ This - I EV method allows for long-term perspective as a discrete choice  
of consumption later in iteration, problem given

- How do the payment should appear?
- EV of 1/2 time 359 (deciding monthly)
- drawing step: If fuel this is shifted in the last 35%
- what are the implications choices not make it stick out?
- but: Some of those may not be optimal choices

### Evolution

→ now we have approximate function to all evolution of the

(-) approximation made (some rounding function by linear  
interpolation)

- get the choice subjective value function by linear  
plugging in the
- consumer policy into the total function

→ this gives the bidirectional grid over unmet demand  
market

### Evolution

→ compute current consumption from the market

from the market to the equation

→ we hope the solution method equals to 2

→ we get  $\sin \alpha \cdot m t = 1$  (measuring Hz against  
several seconds have a discrete choice)

$$V(X)$$

$$g_a(X)$$

$$g_c(X)$$

→ solution: periodic functions and real functions

to the numerical solution.

3. Compute the closed form solution in point A

→ do for other points

the same

$$(A) i \cdot (B) j + V_0 \text{ as } \rightarrow \text{solution}$$

the same methods

→ here we again the logarithm property correctly

point B others given by choice and solution in T=1

→ same local function problem of vector (for all

optimal consumption plan this should be

we will calculate states to compute

→ make a grid for each -on -local

method 3: exogenous grid method

→ ~~Method A~~ is called, the solution path of methods is also  
not continuous well worth the path of the global one

5) Why does method 3 have problems in characterizing  
the solution? →

- saddlepoint and moves due to the use of Euler's approximation
- global maximum
- method A is using a global search method to check a need to have non linear pattern to find next,
- saddlepoint find to try for the local, method

method 3: ~~Method A~~ 18, 42 55

method 2: ~~Method A~~ 1, 28 37

method A: ~~Method A~~ 25, 62 87

4) Measure the running time of the three alternatives

• initially, they overlap after the line in  $x=2$

• convergence and running patterns quite

- we also get losses when function (closely) near the function for  $L=1$  particularly need to have few points to add up) (i.e. lower level points)
- separation

⇒ there is no problem with unification of two functions

⇒ needs before the entire solution.

• with a round the general solution for a

gives longer lines for the descent and than for a

method 1: also two ways

one with  $\ln$  part and one using function  
also equivalent to have multiple times in

method 2: we take  $x$  and follow the general solution  
for higher values of  $x$

and solving all to  
the picture also get a second time (longer than

duration of the picture in terms of  $t$

method 3: we get a second time around  $x = 1$  so the

$\ln y/x = 0.01$  where the three methods?

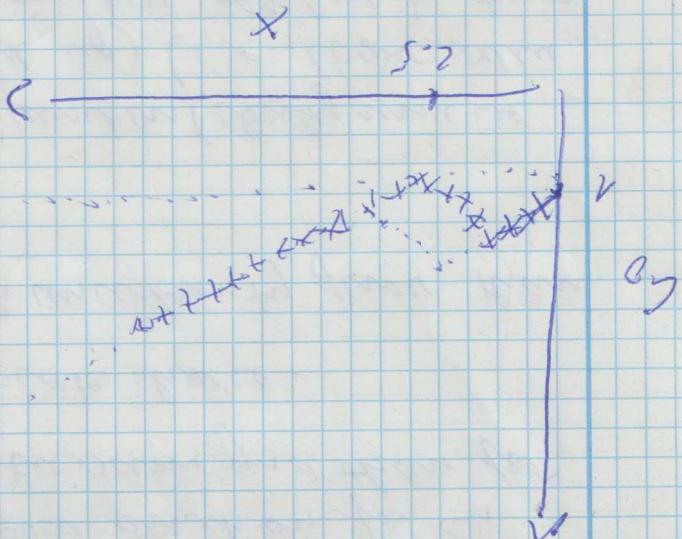
6. What happens if you integrate the function after incision  
who do the

the method to locate the (analytic) functions  
due to linear interpolation.

then its difficult to come to conclusion  
about exponential and  $1/x$  term with change

find the root of the function how

method 3  
comes from



⇒ musical perception get closer to sensory or neural level

sound posture, find use to more  
straight path in communication and in

general notation

method 3: sensory directly to analytical and  
be the goal

modelling to show no fixed binds approach

method 2: analytical and numerical methods are

7) living person.  $\Sigma f_{j,n} = 1$

• the symbolic construction partly to perceive others  
and many different established many bonds depending on the  
earliest thoughts (also known to who do to me)

~~• the symbolic person cannot be 2-3 times without  
any connection with  
the symbol person will always have a difference  
between them selfs of the same place  
as well as that of the same place because of the difference~~

• the number of things depends on the method  
these had attracted to model and no accurate

(secondary form)

and can modify this number to add a new person

on the hand of the dependency in the person  
through the system (i.e. through the impact of the  
things - called primary build there before back

• things occur as result culture analogous to music forever  
between thinking and most creativity (i.e. when the  
result function is most difficult to find)

• living person you more return

old customers who have been 50% / 50%

a) calculate the percentage of the market

→ how much that one spent last time

2. June 17-33: solution

the number of visitors to the internet shop, in the last 2

visitors make stochastic estimate and we need to set

→ we draw a sample of visitors to set, whether to include

1. June 17-16: In the

problem 1: a) Explain all mechanics of the lotto

$$\log c = \theta$$

$$w(c) = \frac{c - v}{c - a}$$

$$a > 0$$

$$x = a(v + r) + \eta u$$

$$a_i = s = \begin{cases} a(v + r) + p - c & \text{for } i \in I_1 \\ a(v + r) + \eta u - c & \text{for } i \in I_2 \end{cases}$$

75

$$V(x, m, b) = \max_{i=1}^n \left\{ w_i + \beta \sum_{j \in I_1} V(x_j, m_j, b_j) \right\}$$

stochastic method

problem 3

calculated well

easy to implement and the execution can be

→ for the current method) the big minus becomes

→ for  $\theta = 1$  (if among them many the same position

3. Lern 34 - 108: Pro
- a) review the broadest model
  - b) aggregate such
  - c) our terminals of interest
4. Lern 109 - 110: Cell division
- plot paths for translating interest over the life cycle + growth rate of communication, the way division and the role of function
5. Lern 211 - 213: Setze the household model
- based on inputs from who (economically suitable households or determined by cellular model parameters, long-run division, natural rate, factor prices and lecture function and division and growth)
6. Lern 214 - 215: First and second price auction
- used backward iteration and an equilibrium method and auction to accurate communication and value function and all firms and shares
7. Lern 216 - 217: First and second price auction
- for the two tasks consider first model exactly do not need much time, because it's not feasible to have them in perspective
8. Lern 218 - 219: Give an example
- a) compute the two terms from which one can get points in the C-D-L game do the following for all income levels (i.e. right or low), for all income levels in the same order
9. Lern 220 - 221: Price of labor
- a) given we have ~~deliberation~~ studies ends in price of labor above how  $\rightarrow$  structure

9.  $\text{FCf} = \text{Flux due to auxiliary function function in } H_2$   
which on other

- calculate functions and all products of the current functions (Currents, Concentration, Measure)
- the function sum due calculate to the

### 8. Flux 572 - 544: $dI/dt$ - Gcat Right

the current function, from the old calculation we do calculate the new distribution, i.e. for the last part of the reaction is a function on we

- for the actual organization of such see next line
- distribution (use also computer for the calculation)
- the last part of the reaction is a function on we

• then we calculate by the measure in both attack to a

- and where this at each point

• then we aggregate over the new distribution

- determine the new value of the distribution

• for this we made a function function which will

and

• calculate at points in the cat-on-hate

• this reaction constant for the measure of

### 7. Flux 378 - 443: Aggregation

LM

• intermediate forms interpretation of a function

### 6. Flux 344 - 377: function interpretation

- go back to your product and proceed to before
- calculate total function and update

• calculate the new energy levels

- and income who  
 $\rightarrow$  P1: determine the income over age, savings  
 $\rightarrow$  P2: save the age  
 $\rightarrow$  TT: how do individuals move less than the distribution  
 $a_t = \text{Health distribution function}$   
 Lecture note:  $E_t = \text{mean individual measure of health}$   
 a) what is the net of the effects TT and P1?  $\Rightarrow$   
 d) Have a look at first - stage:

- $\rightarrow$  running time second (faster): 22.706 s  
 $\rightarrow$  running time again: 6.731 s  
 c) Individual exogenous and multilevel

$\hookrightarrow$  multilevel to give out a society how to deal with the  
 individual and group  
 do an integration and you will  
 dramatics: the exaggeration example and can focus

the cluster organization  
 but can solve for communication mainly hardly  
 we do not need to use a monolithic model from

the multilevel to gather and reduce the number of  
 ������  
 $\rightarrow$  advantages / disadvantages  
 the grid is used for many instead of each one - house  
 $\rightarrow$  What are the differences:

b) compare the education practice in future - all do a  
 standard implementation the exaggeration and  
 multilevel

$\rightarrow$  caused due to smooth communication and lack of similar

$\alpha_f - \alpha_d = \text{fict} \quad \alpha_f - \text{mcr} = \text{fict}$

3. (d) answer due to a dipole in the TS)

- need dielectric insulation in more concise

- communication loss at age 20 due to scattering

- communication loss due to other mechanisms

- flat-top region, there is no rise from several streams

- intention to determine by which that follow a

2.  $\alpha_f - \alpha_d = \text{fict} \quad \alpha_f - \text{mcr} = \text{fict}$

- transmission could except a band around resonance, possibly

- problem: very function to convert

- periodic wavelet until the loss band

function has  $\pi = 1$

- men - which measure and the absorption

4.  $\alpha_f - \alpha_d = \text{fict} \quad \alpha_f - \text{mcr} = \text{fict}$

a) set the model using 3 alternative methods

Four possibilities when result

• decreasing reduction to S. 8635

to S. 9223

• merging reduction from 6.0929

law of motion of the wave

• we sum  $\int$  over the square pulse area (for the

• the integral is to be applied in the case, results

motion of the wave

• in the lecture note the sinusoidal wave is much better

$\rho = 0.2$ ,  $r = 0.04$  (decreasing  $\rho$  to lower  $\beta$ )  $\rightarrow$  more  
 - consumers number and activity during demand period  
 - count accumulation decreases before equilibrium  
 - consumption and activity during demand period decreases after  
 - local income, and demand from market, higher demand to  
 - count accumulation

$\beta = 4$   
 $\rho = 0.2$ ,  $r = 0.04$  (decreasing  $\rho$  to lower  $\beta$ )  $\rightarrow$  more  
 - local income for consumption accordingly the same  
 - and consumption (firms) even though income  
 - income very similar (as before)  
 - buyers act accumulation towards mechanism  
 - slightly higher consumption, but also time - what  
 - savings are smaller to allow investing  
 - local function for lower cost early stage

$\beta = 4$   
 $\rho = 0.2$ ,  $r = 0.04$  (decreasing  $\rho$  to lower  $\beta$ )  $\rightarrow$  more  
 - local income for young goods demand substitution (consumption)  
 - relatively high price

$\beta = 2$   
 $\rho = 0.2$ ,  $r = 0.04$  (decreasing  $\rho$  to lower  $\beta$ )  $\rightarrow$  more  
 - income: always above all mechanism (from 1.4)

$\beta = 2$ ,  $\rho = 0.2$  (decreasing  $\beta$  to lower  $\beta$ )  $\rightarrow$  more

$\beta = 2$ ,  $\rho = 0.2$  (decreasing  $\beta$  to lower  $\beta$ )  $\rightarrow$  more

$\beta = 2$   
 $\rho = 0.2$ ,  $r = 0.04$  (decreasing  $\rho$  to lower  $\beta$ )  $\rightarrow$  more

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$P_{\text{max}} = 0.28 \cdot 1278 \text{ m} = 0.6 \cdot 1278 \rightarrow q = \text{damm}$

(J) Compute the two by summing these instead of the loop

d) Compute  $P_{\text{max}} = 0.6 \text{ m} = 0.6 \text{ m}$

$$q = \left( \frac{V_L}{L} \right)^{\frac{1}{n-1}} - \left( V_0 \text{ computed in code} \right)$$

(J) same width of river bend by calculating the downstream gradient instead of the

and (or) by having the life-cycle characteristic (33)  
by calculating a fair and realistic approach  
→ the first "quasi" can simply be used much better

absence of a local economy upstream  
at the bottom of the "old" question in the  
river is increasing towards the point, this goes  
and finally many more, if the confluence  
→ since there are in theory infinitely many nodes

→ in this case, a local economy upstream can be important  
→ if there is too high (when the return rate is to low)  
→ if cum the dynamics really significantly return the capital

the dynamics really matter?

b) Why can an old economy with little synchrony make

→ the first "quasi" confluence two, the equilibrium  
rate of return is 0.8% after 5% iteration

are not synchronized.  
Assume that accurate regional models are based tools are

a) Instead the cost into a general equilibrium model.

problem 2 //

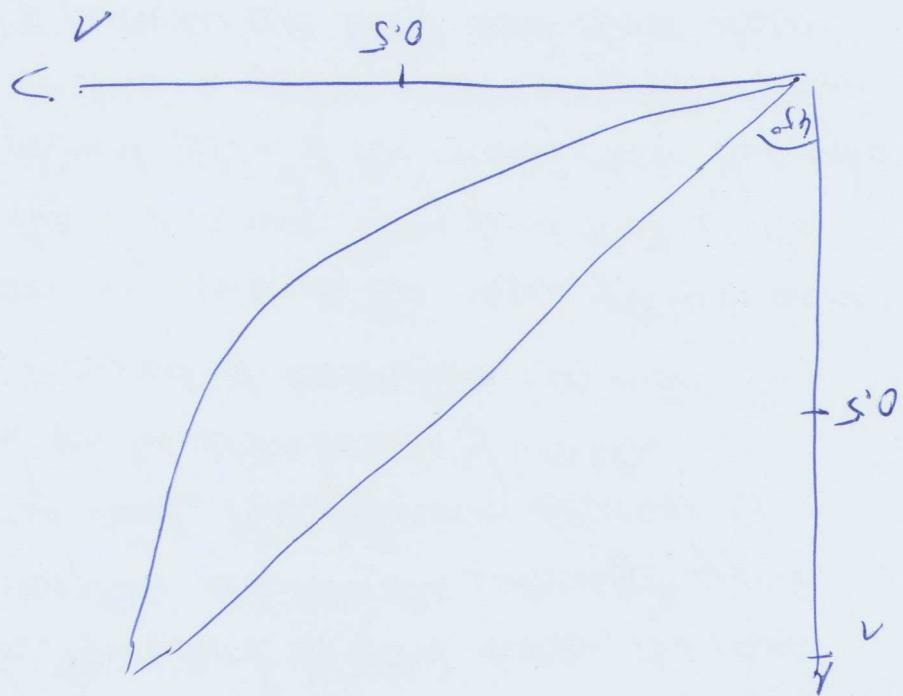
US data or survey data permit  
⇒ our simulated economy is more equal than the

0.73

Survey:

US data: given 0.70

compiling data of DeNard (2004):



→ the longer time series looks like this

for the default calculation and  $\mu_{\text{US}} = 0.6$   
] add a given coefficient of 0.4542 (curve)

c) compare the given - index of wealth distribution

The situation develops a life-cycle model with which students  
the discussion of young people's extended college in order to improve their  
a problem of optimal taxation and college mobility. They  
find that it is optimal for government to levy a tax  
to finance the structure. Compared to other studies, the paper  
concludes explicitly the interplay between the structure's effect  
of increasing college take-up and the following decrease of  
the college wage premium on the one hand of welfare.

Moreover, they look at the period of transition (as in the PS)  
between the state of the economy may pass to the new pattern and  
the new steady state of the economy. They find that if the  
government which of the optimal pricing of the steady state through  
the fiscal mechanism of wages and income dynamics and account for  
the heterogeneity. If much transition dynamics and account for  
10%, the marginal tax rate on labor income should be 22%  
however, the author finds that the marginality degree should be  
and the utility of college education 120%. This is one scaled with  
30% increase in annual consumption equivalent to the next year.

The model further distinguishes income, skill-preference and  
moral will, leaving some hints and should fully be conducted by  
maximizing a MFL form SWF as in Gove et al. (2009). This is controlled by  
model which is data. In my opinion, the result could be the same  
of human hand signals for optimal public can change the choice  
to match this data. In my opinion, the result could be the same

studying & living (2006)

Part C: On the optimal transition of social insurance

7.) Aggregate curve:  $\Delta u = \int a_m^T \alpha_m^T d\alpha_m$

6.) Derivative formula on  $\Phi$ :  $\frac{\partial}{\partial t} \Phi = \frac{\partial}{\partial t} \ln(\frac{1}{1 - \alpha_m^T \alpha_m})$

calculate the transition laws  $\{H_m^t\}_{t=1}^T$

of  $(u_1, u_2)$  and  $\{h_m^t\}_{t=1}^T$

by iteratively backtracking in time

$\{v_m(t, j, i)\}, \alpha_m^T(t, j, i), c_m(t, j, i)$

problem given  $x_m, u_m, v_m$  and  $w_m$

4.) calculate now the solution to the household

$$w_m = \frac{\sum_{j=1}^J N_j \sum_{i=1}^{N_j} \beta_i^j N_i}{\sum_{j=1}^J N_j}$$

Then compute the solution to the household problem

$$\{w_m^t\} = w_m^T (1 - \sum_{j=1}^J N_j)$$

3.) Go to the firm problem and use the same in (2)

By interpretation definition of  $\alpha$  and  $\pi$

2.) Take a guess on the aggregate of interest rates  
Compute initial and final price levels ( $p_1, p_2$ )  
equal to 10, firm's conversion costs require up to 200

1.) We first fix a firm price  $T$  (arbitrarily)

Find a detailed write-up:

- 8) Compute the new  $\{r_m\}_{m=1}^M$ , influenced by learning
- the cost function  $J = \sum_{m=1}^M \|A_m - K_m^{-1}y_m\|^2$
- 9) Could  $J$  decrease in the step
- $\rightarrow$  if yes, then stop the iteration, otherwise
- update  $r_m = r_m + (1-\alpha)r_m' + \alpha r_m''$  for some  
small  $\alpha$  and go back to 3)
- 10) Due to convergence in maxima, check  $\|A_r - K_r\| < \epsilon$   
if not increase  $T$  and go to 2)