

E-party Definition in  $\mathcal{Q}$ -Formalistic Rings  
 Just work with A. Simpson (UIC)

Determination Problem: Suppose  $\mathcal{P}$  is a property of  $M$ .  
 regular, Gc, c-M, complete, if  $\mathcal{P}$  NFD for c-M  
 $\mathcal{P}_{\text{def}} = \mathcal{P}$ , is  $\mathcal{P}$  also  $\mathcal{P}$ ? If yes then  $\mathcal{P}$  defined

Example: Fig. 60., C-

Mr. Doyle Complete

## Demand Profiles in Price Changes

Assumption  $R$  is a prime char  $p > 0$

$\forall c \in N \quad f: R \rightarrow R$

11-25

IF  $M \in \text{Ad}(z)$  let  $F_M = z\text{Ad}(z)$   
 be the module obtained from  $M$  via induction at  
 scales under  $\mathbb{R}^+$

IF  $m \in M$ ,  $r \in \mathbb{R}$ ,  $m = F_r(m) = r^m$   
 Definition:  $R \in \text{GK}(M)$  if  $M = \text{Ad}(R) \rightarrow \text{End}(M)$   
 $\text{End}(R) = \{F_{R(i)} : i \in \mathbb{N}\}$ ,  $F_R(i) = R^{(i)}$   
 with  $R = \{r_i : i \in \mathbb{N}\}$  and  $R^k = \{r_i^k : i \in \mathbb{N}\}$ .

Theorem (Kurt Gödel)  $\mathcal{L}_F$  is free  $\Leftrightarrow \mathbb{R}$

*Dokument*

Ex. 23:

- J - Exogenous factors in C-M (Easy)
- Very little in microeconomics (full open)
- Factors do not change over time
- III - Factors do not change, but we consider it as a variable

Long run C-M

- III - Total cost =  $f(L, K)$  and R, while not  $f(P)$  or  $f(\text{output})$  or  $f(\text{GDP})$ , but
- IV  $\Rightarrow$   $f(L, K) = \alpha L^{\alpha} K^{1-\alpha}$

- ✓ Algebraic Method: Factor pricing, determine prices for factor
- ✓ Microeconomics: Factor pricing, determine prices for factor

2. Condition:

Theorem (-, Simpson): Condition ① is OK.  
 $\Rightarrow$   $\text{G}_1 = \text{G}_2$  (in other words,  $\text{G}_1$  is normal).  
 Proof: Assume  $\text{G}_1$  is normal ( $(\text{G}_1) > (\text{G}_2)$ ).  
 Then  $\text{G}_1 \cong \mathbb{Z} \oplus \text{P}_1$ , where  $\text{P}_1$  is an ideal of  $\text{G}_1$ . Let  $\text{P}_2$  be the ideal of  $\text{G}_2$  such that  $\text{P}_1 \cap \text{P}_2 = \{0\}$ .

$R$  is  $\text{O-Gr}$  if  $\exists$  NWD such that  
 $J^{(N)} = \langle a \rangle \cong R$ . The index of  $J$  is  
the least  $N$  such that  $J^{(N)} \cong R$ .

- In a C.W. ring there is at index
- finite

What is our method?  
 $(x, m, k) \in G - G_{\text{irr}}$ ,  $\exists M \in \mathbb{F}$  s.t.  
 $\sum_{i=1}^k D_i = M$  for  $D_i \in \text{End}_{\mathbb{F}}$

Choose  $m \in \mathbb{F} - \{0\}$  so that  $f_i$  is a CED  
 $\forall i$ .  
 $\Rightarrow f_i$  is a CED and  $\exists$  do not contain  $f$

Again we have  $\beta \in N_f^{\text{irr}}$  where  $f \in N$ .

Let  $T = T^{(m)}$   
 $T^{(f)} \cong T^{(m)} - \alpha_1 \in \mathbb{F}$

- $R \longrightarrow S = \text{Re } ItC \frac{I^0 e^{-i\theta}}{I^0 - 1}$
- $R$  is  $F$ -pure  $\Leftrightarrow S$  is  $F$ -pure  
Cand-Kun, stuck
- $S = C/I^0$  of index  $N$   
 $I^0 \subset R$  then  $S$  is  $F$ -pure!

$\text{P} \xrightarrow{\quad} S$  We show  $\frac{S}{P} \geq 0$   
 $\downarrow$   $\downarrow$  a cycle of  $\frac{S}{P}$   
 $\text{P}_{22} \xrightarrow{\quad} S_5$  in which refutes  
 $\frac{S}{P} \geq 0$ . Equivalently  $S_5 \geq P_{22}$

$$\text{How is } \frac{\partial}{\partial x} \text{ a cyclic covariant?}$$

Why do we want to expand  $\frac{I^{(t)} f}{(t)} = \left(\frac{I_t f}{t}\right)^n$

• We expect  $\beta$  to be negative.

-for simplicity assume  $\beta$  is C-M.

$\Rightarrow$  all limit points of  $f(\mathbb{R})$  are also  $C\mathbb{M}$

W. 88 ft. 6.3 m. 2 ft. —

$$\text{Final } T^{(t)} \geq R \Rightarrow T^{(t+1)} = (\bar{x}^{\star})^{(t)} \geq R$$

PLR ≈ 7.0 — off, -8.7<sup>H</sup>

$$\Rightarrow \ell_1^2 \ell_2 \ell_3 \ell_4^{(k)} \leq \ell_1^{(k)} \ell_2 = \exp(-\epsilon)^{k+1}$$

$$\text{LHS} \stackrel{\text{def}}{=} \mathbb{P}^{\mathcal{E}}_t I^{(d)} \geq \mathbb{P}_t R$$

ANSWER  $\Rightarrow \text{F}^m R =$

$\mathbb{C}[R] \cong \mathbb{Z}^{(n)} \otimes \mathbb{C}$