INFORMATION PROBLEMS & THE PHILLIPS CURVE

Two models device a Phillips curve,
not by imposing constraints on price adjustment,
but by imposing constraints or information
available to agents.

"Sticky information" [Mankin & Reis, QJE 2002)

Monoyelist pricesetter, $p_i^* = p + xy & y = m - p$ but connot (or chooses not to) observe current p_i y, m (macroeconomic, aggregate variables)

pricesetter observes there only at intervals, when random bell rings as in Calve model.

At that time, observe more economy & write down a planned path for pi which will be followed until bell rings again,

planned path can allow pi to vary From period to period.

into updated new plan made.

<u>Firen</u> constraint on into (or wilful ignorance) rsc rational expectations.

INFO PROBLEMS (cont.)

Lucas Supply Function (Lucas, JET 1972)

Perfect competition in predect markets

Goods produced by "yeomen barbers" who

take price as given, want to preduce

more when (p; -p) ?

Butall a product can see is p; - can't see price level p (or m).

when mt, all prices rise so (pi-p) unaffected,
but barber secs pil, says, "this might be

(pi-p)1," & preduces more.

Resulting Phillips Curres

SI
$$\pi_{+} = J_{j=0}^{\infty} (I-J)^{j} E_{t-1-j} (\pi_{+} + \Delta \Delta y_{+}) + \beta y_{+}$$

past expectations of current

conditions