The IS/LM Model

Based on Blanchard, 7th edition, chapters 3-6

The IS/LM Model (version 1, chapters 3-5)

• *IS*: the elements in the construction of *IS* are *C*, *I*, *G*, and *NX*, and all the factors that influence these four variables.

 $C = f(Y_D, \text{ real wealth, expectations, credit market conditions, ...)}$

I = g(i, expectations, credit market conditions,...)

$$G=\bar{G}$$

$$NX = \overline{NX}$$

T =taxes, net of transfers, given

• *LM*: the elements in the construction of *LM* are demand for money, supply of money, and all factors that influence these two variables.

$$M^d = \overline{P}Y \cdot L(i)$$

$$\frac{M^s}{P} = \frac{\overline{M}}{\overline{P}}$$

• Interest-rate targeting: horizontal *LM* curve.

The IS/LM Model (version 2; with risk premia and nominal vs. real interest rates, chapter 6)

Fisher Equation

$$r_t = i_t - \pi_{t+1}^e \iff i_t = r_t + \pi_{t+1}^e.$$

- IS relation: $Y = C(Y-T) + I(Y, i-\pi^e + x) + G + NX$. x is the risk premium.
- *LM* relation: $i = \overline{i}$.

However, "although the central bank formally chooses the nominal interest rate, it can choose it in such a way as to achieve the real interest rate it wants". This ignores the issue of zero lower bound—to be discussed.