

Discussion of

“The Liquidity Coverage Ratio and
Monetary Policy Implementation”

by

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Introduction

- Review the main mechanism
- Review the interesting results
- Comments

Main Ingredients

$$\Delta ; \Delta_T ; \varepsilon$$

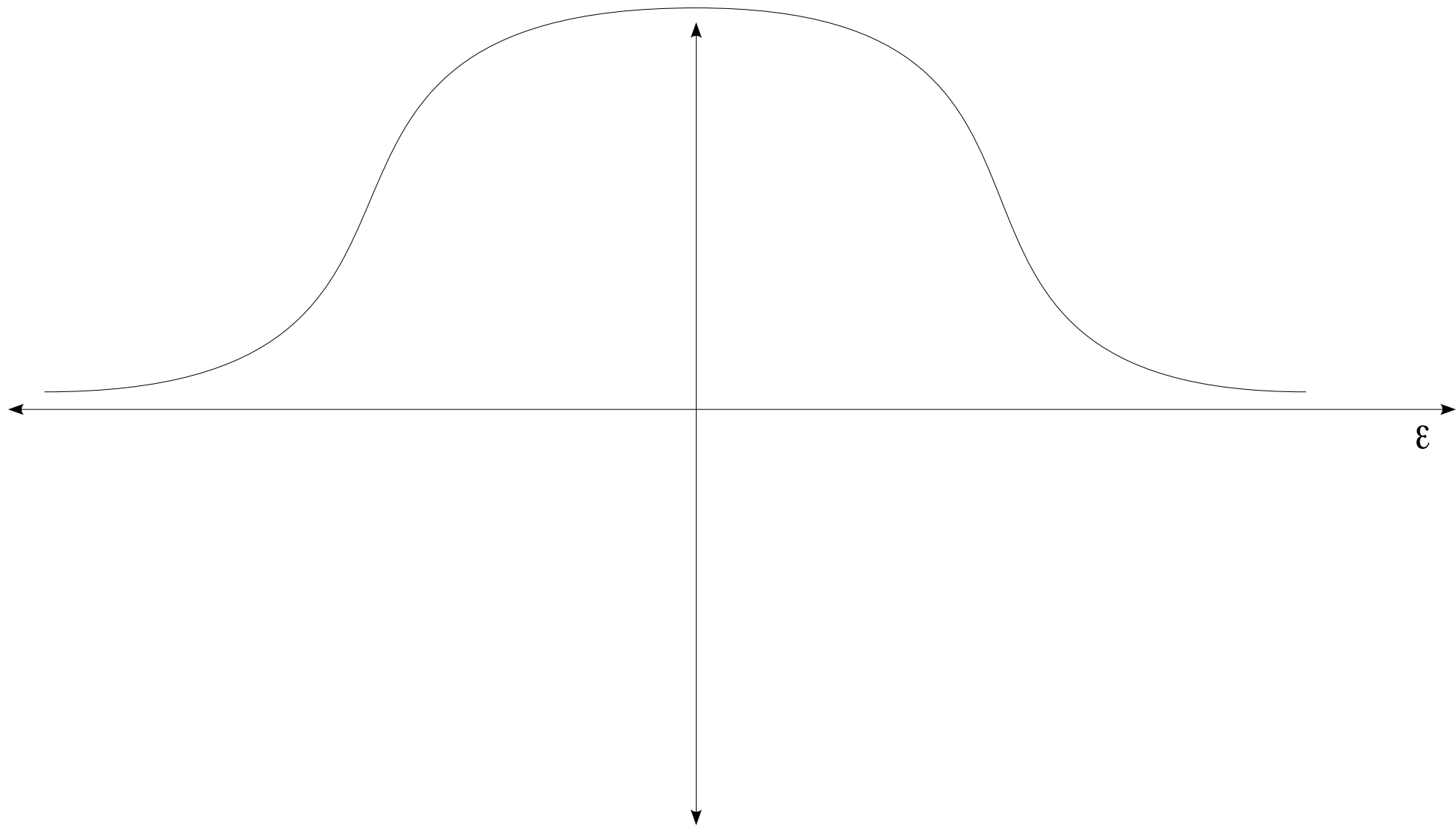
Reserve requirement: $X = R - K + \Delta + \Delta_T - \varepsilon$

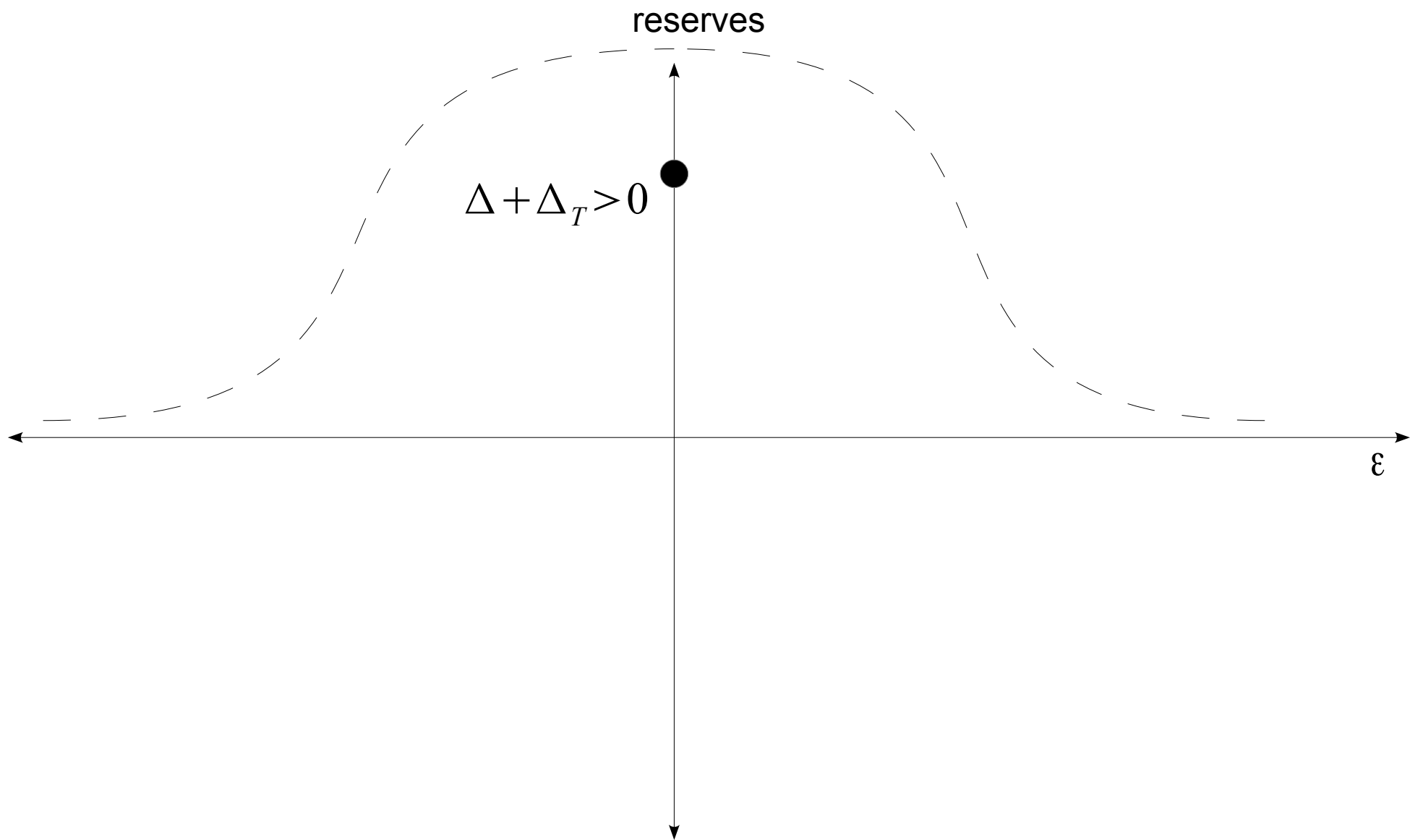
Liquidity coverage ratio: $X = \frac{R - C}{(1 - \theta_X)} + \frac{\Delta_T}{(1 - \theta_X)} - \frac{(1 - \theta_D)}{(1 - \theta_X)} \varepsilon$

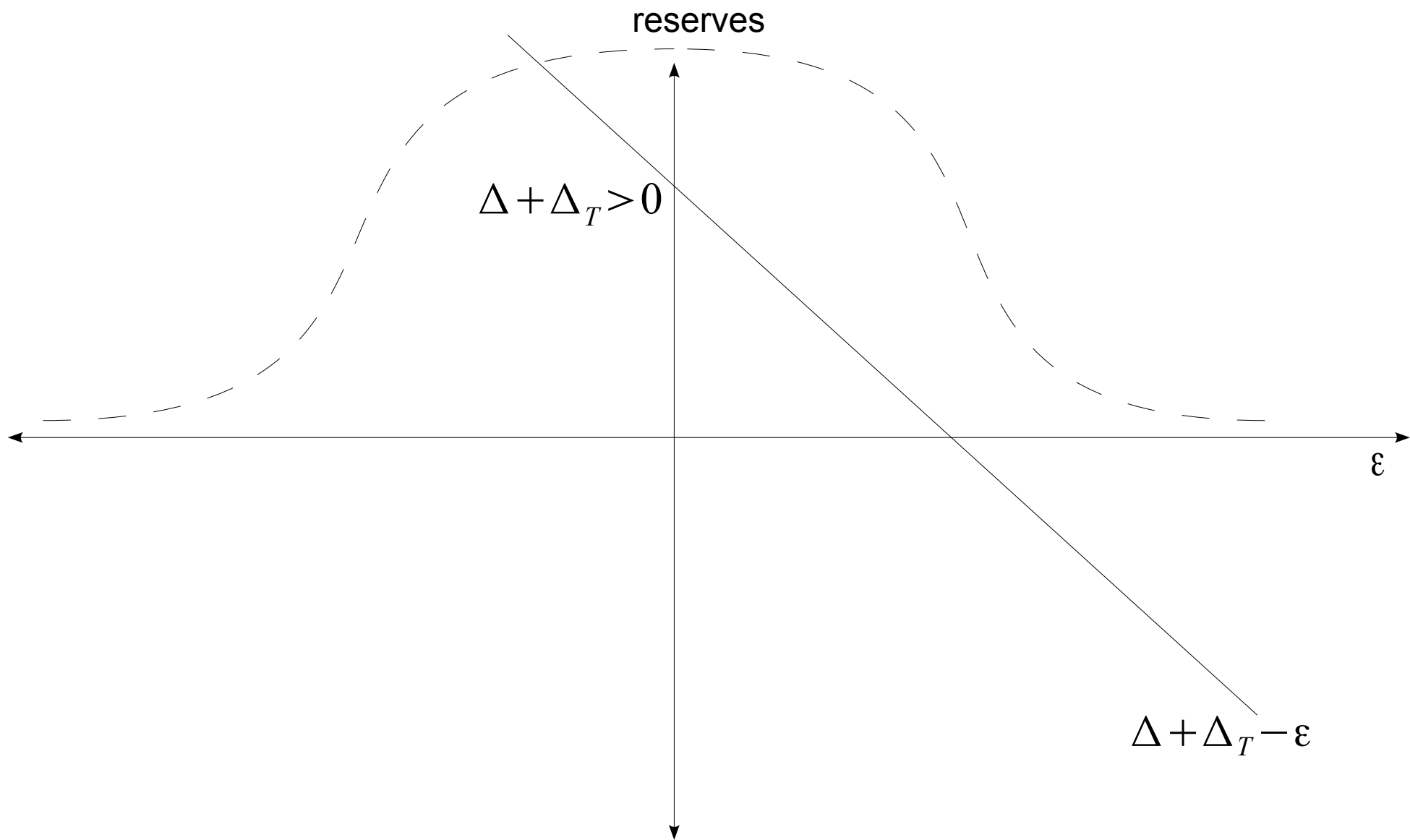
Set: $R = C = K$

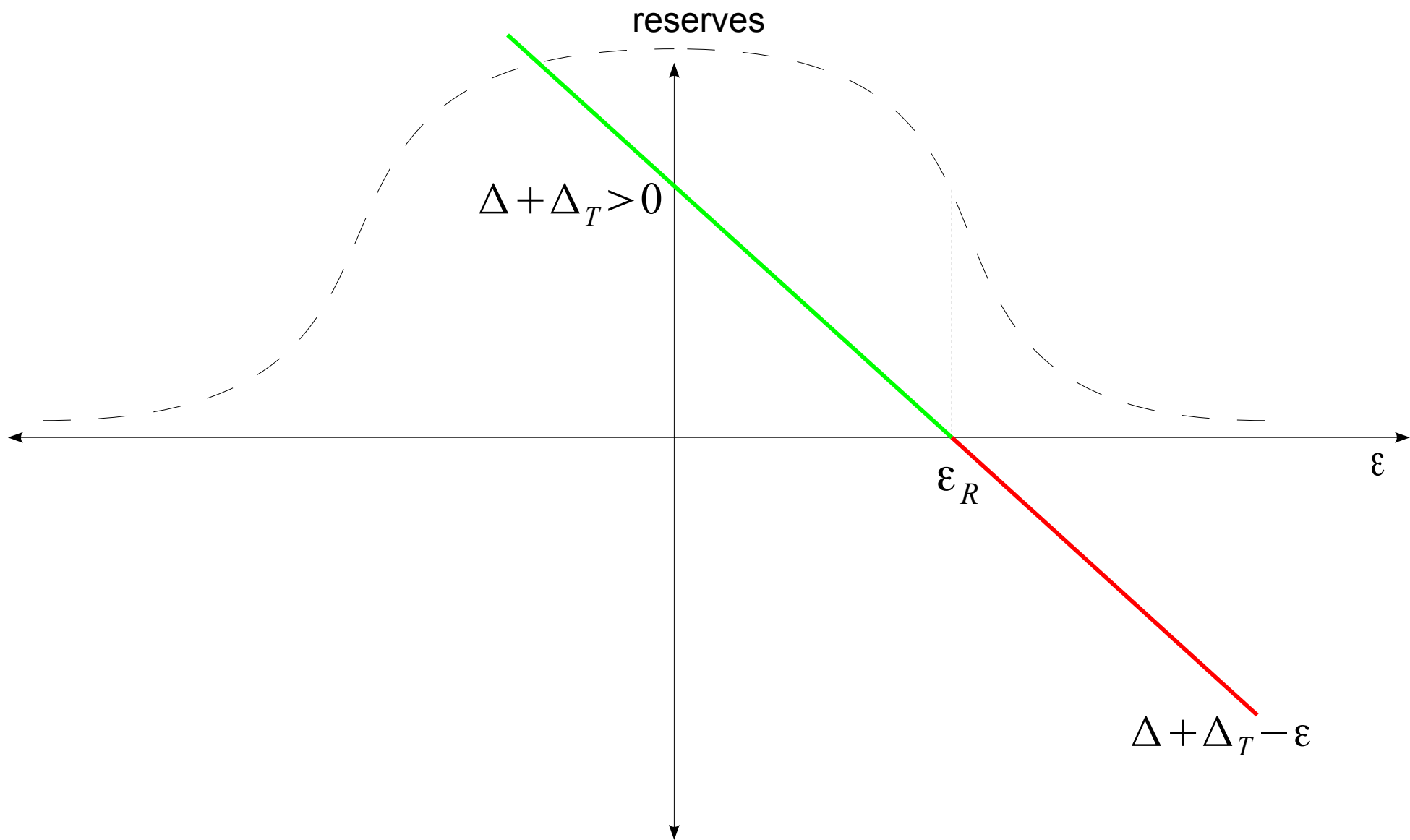
The Poole Model

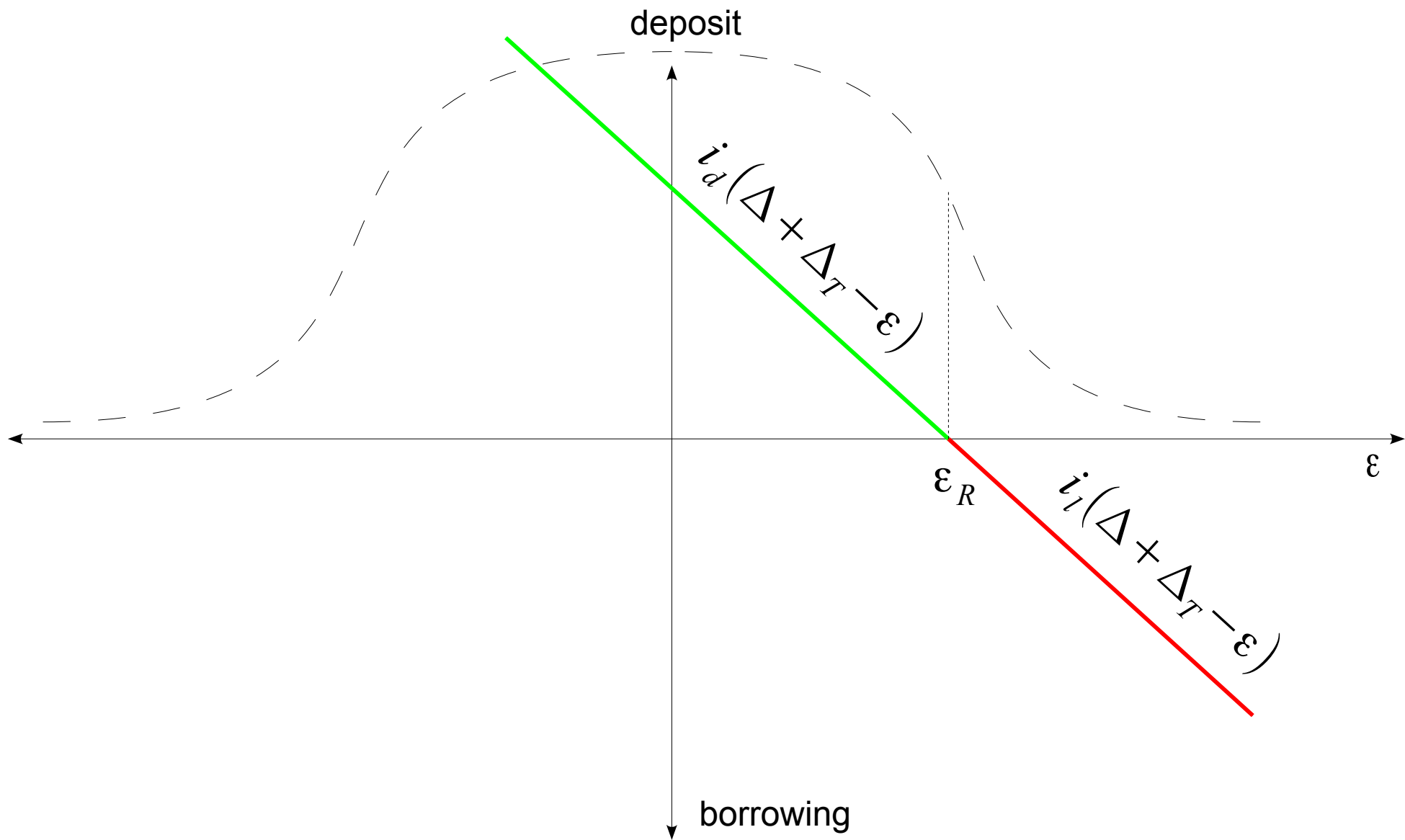
- Reserve requirement

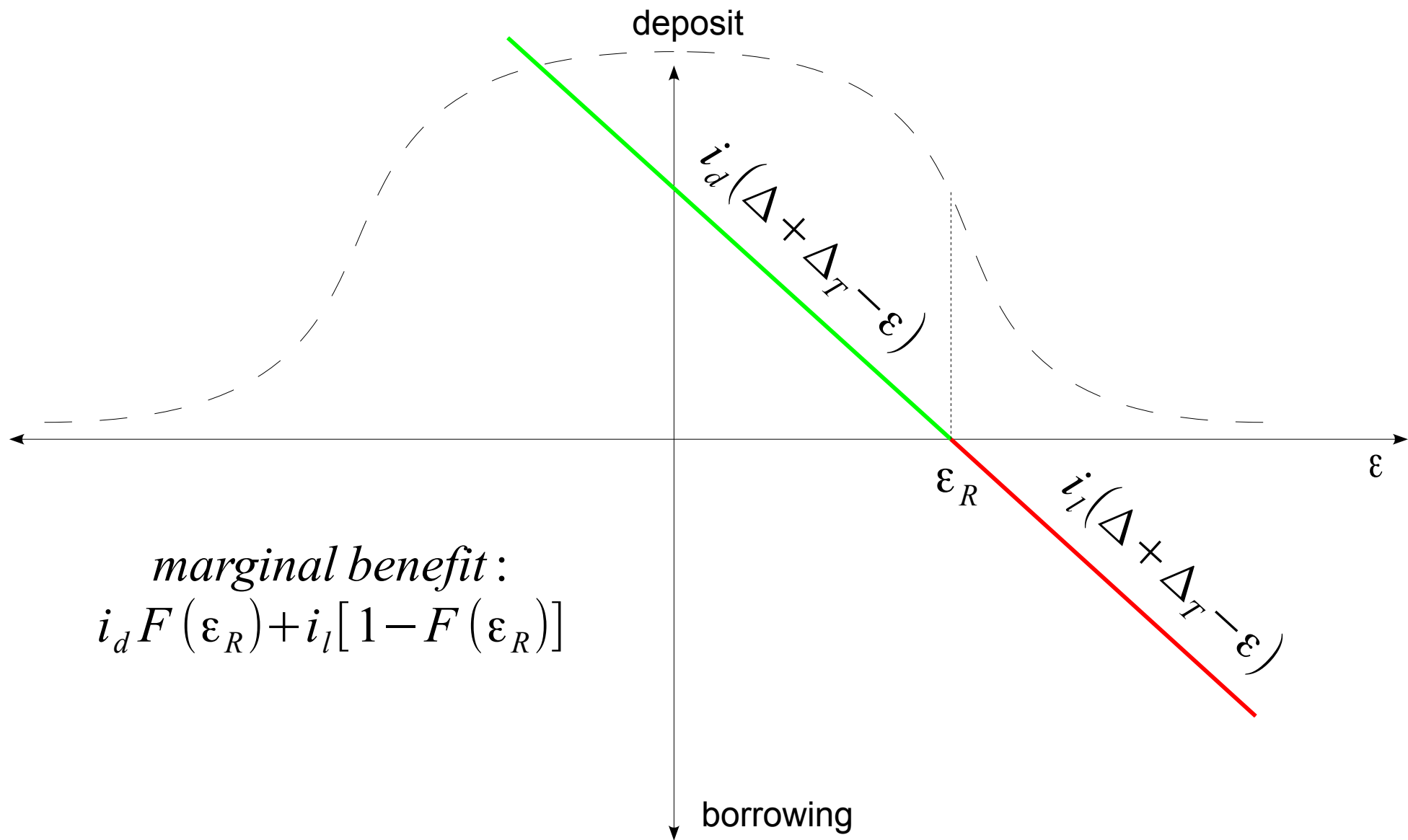


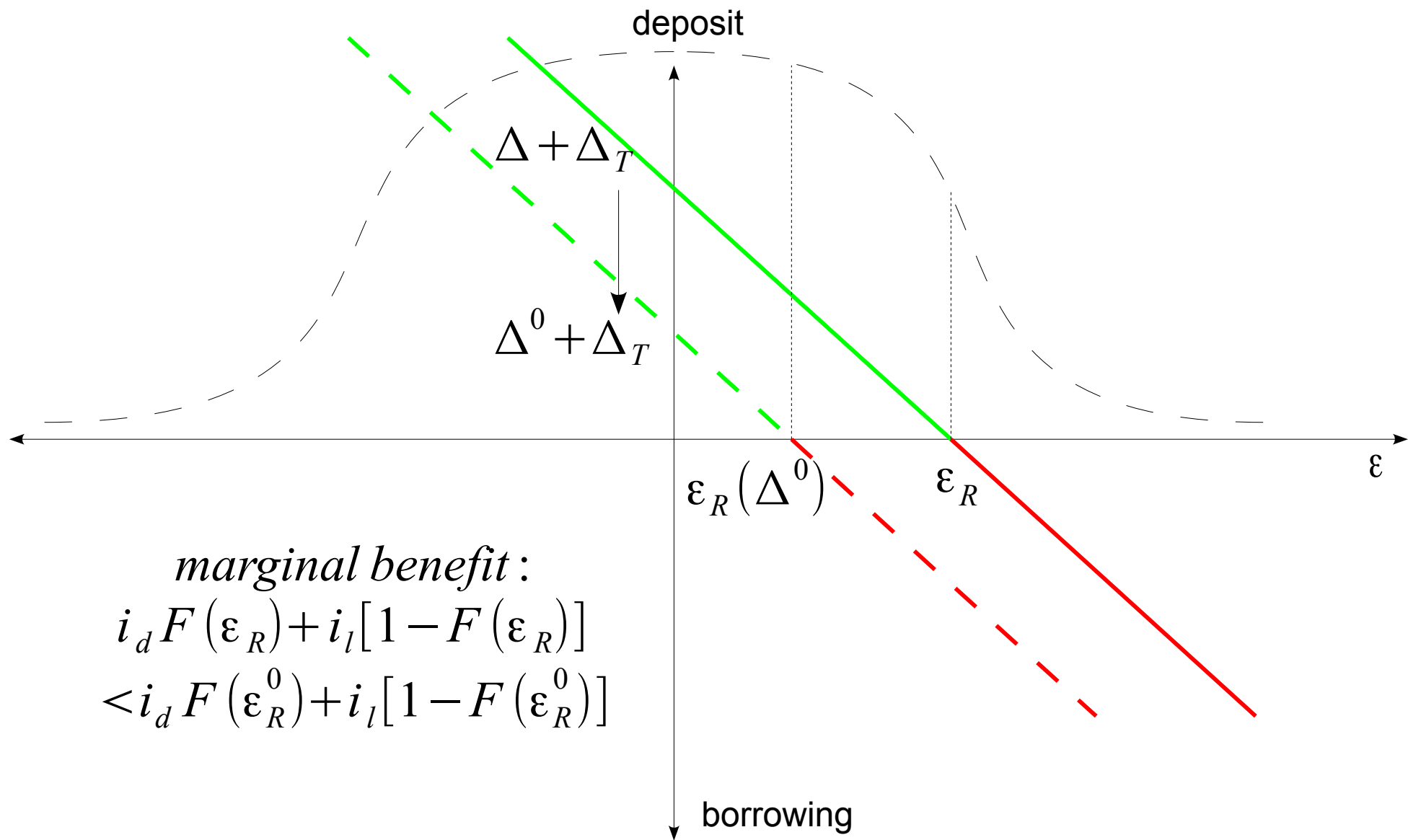


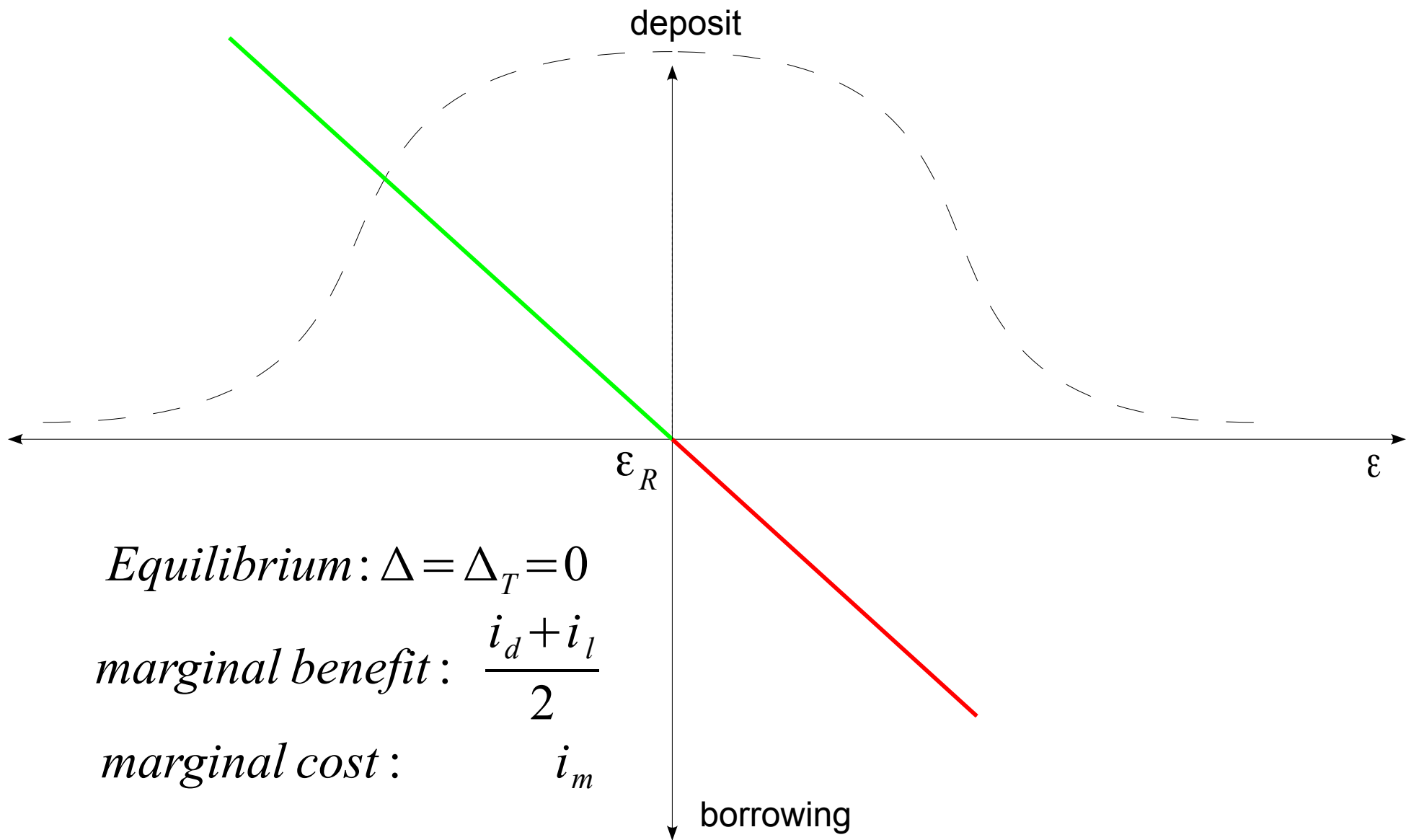










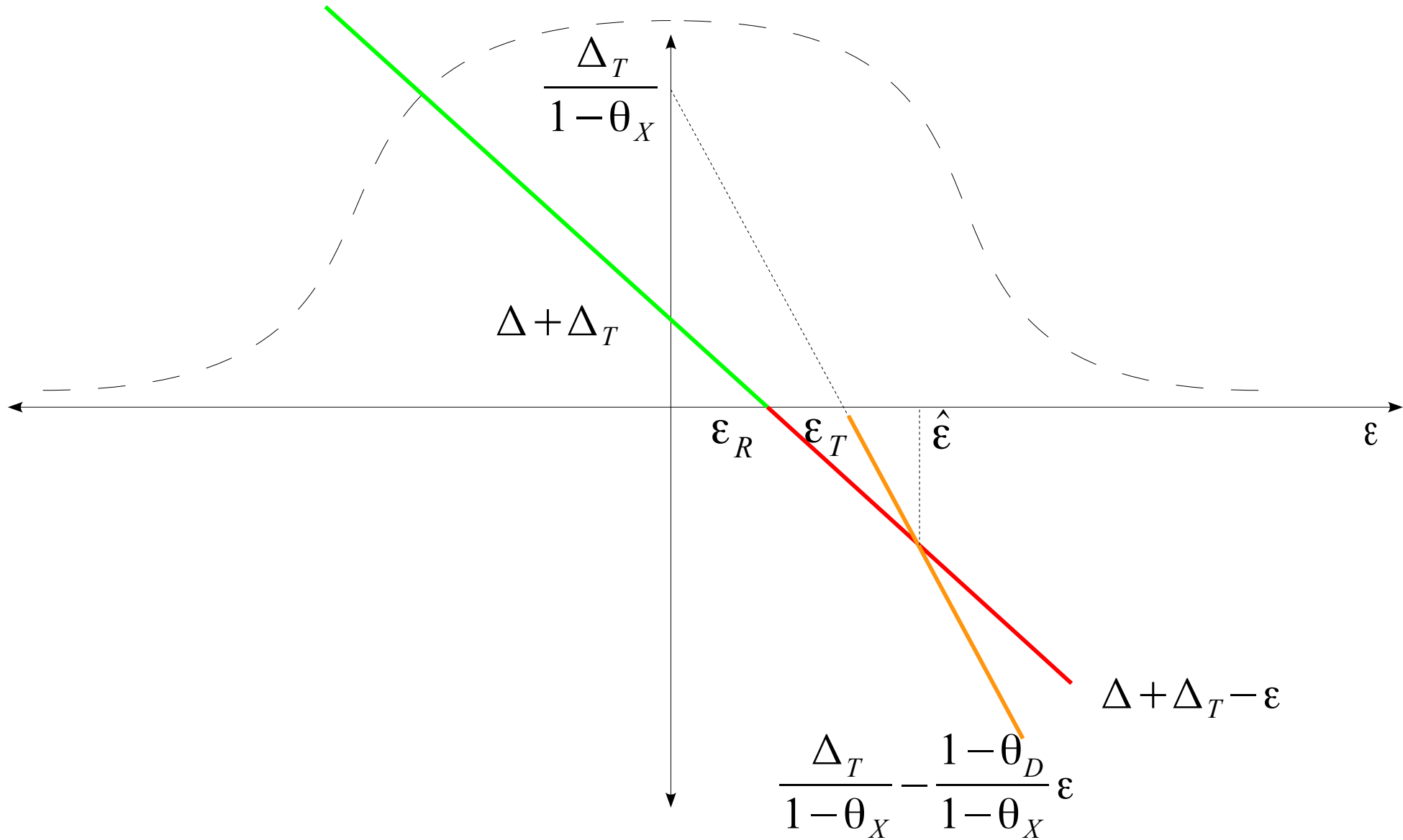


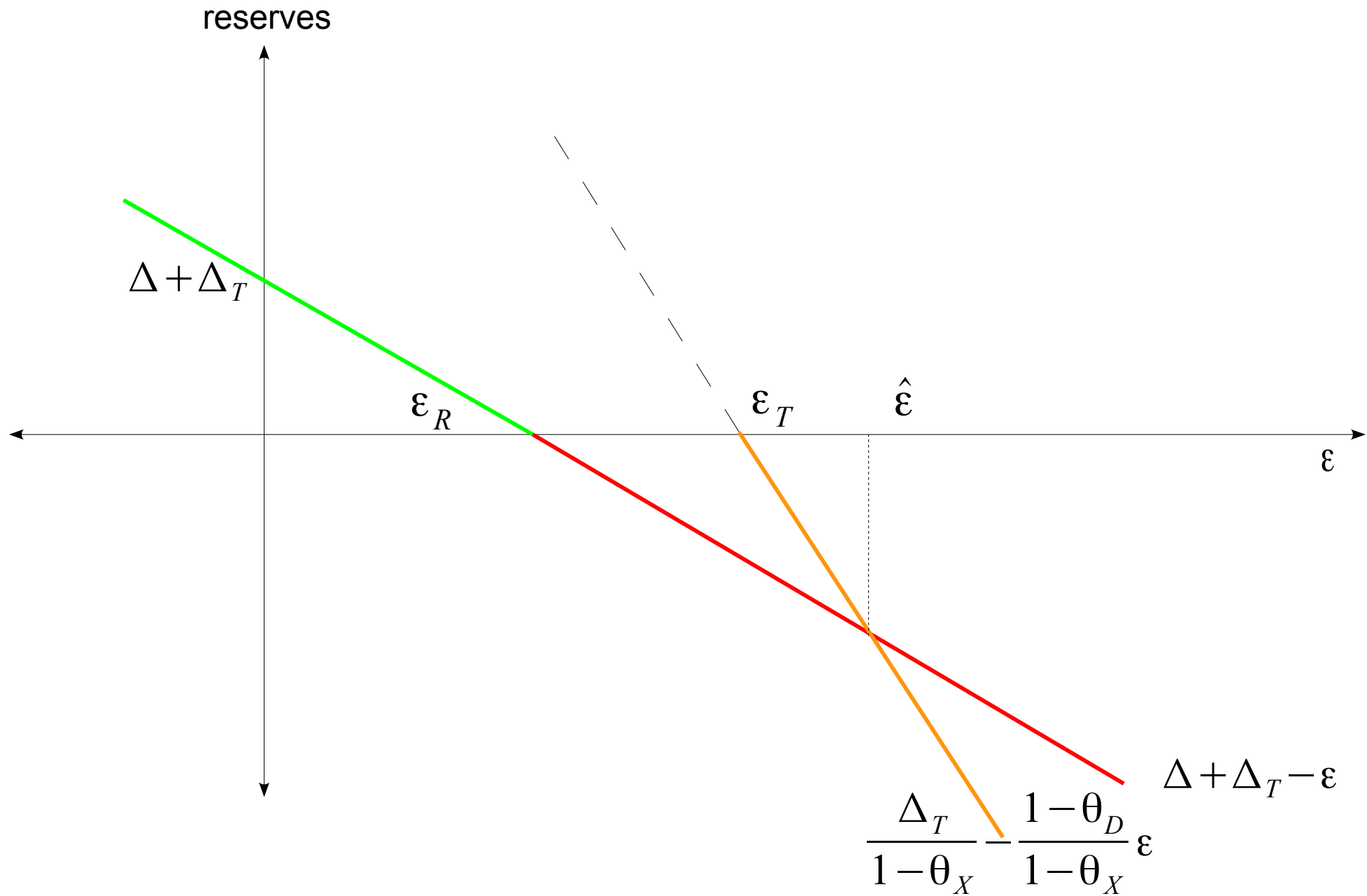
The Bech-Keister Model

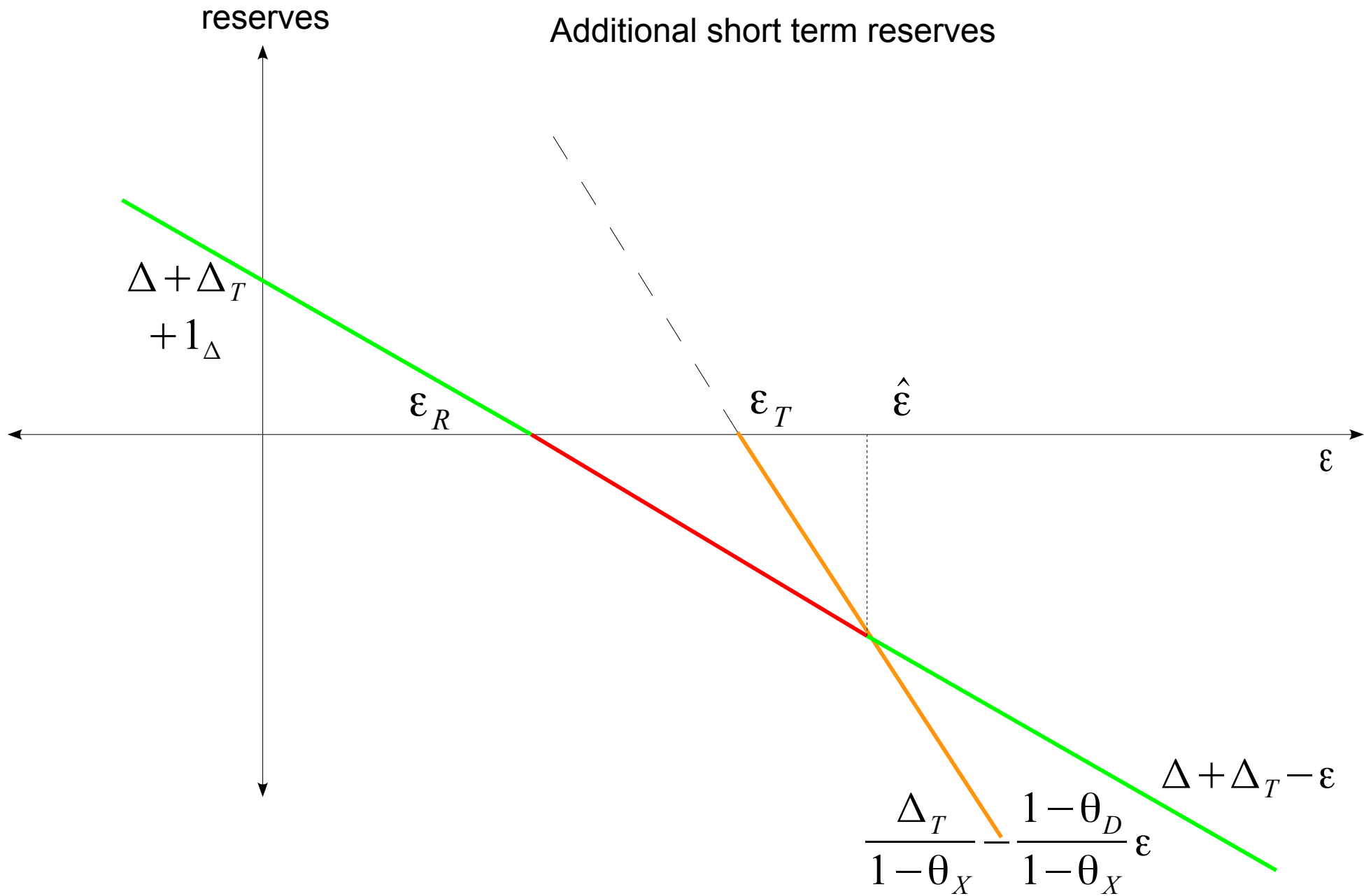
- Reserve requirement
- LCR

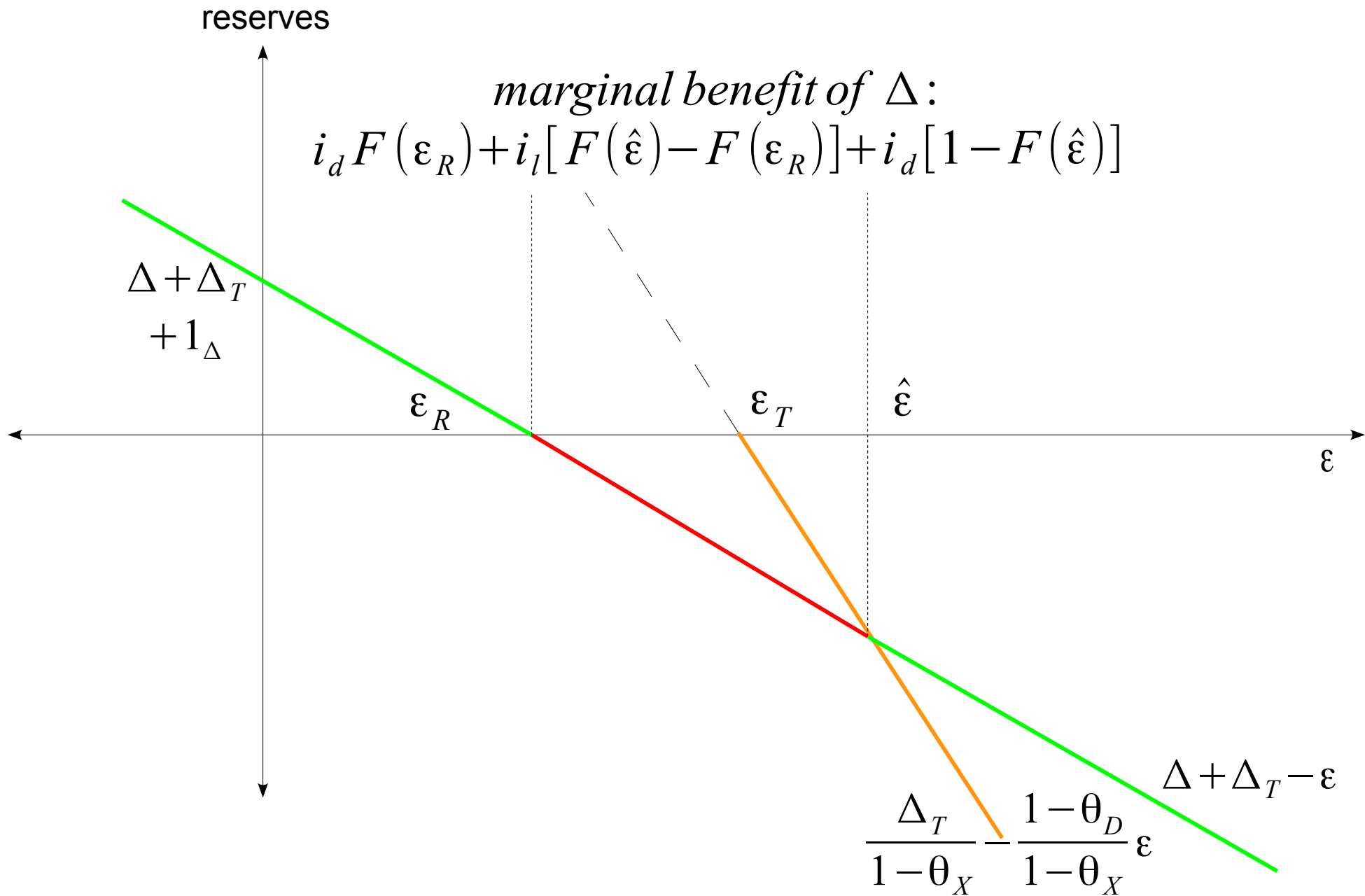
Liquidity coverage ratio:
$$X = \frac{\Delta_T}{(1 - \theta_X)} - \frac{(1 - \theta_D)}{(1 - \theta_X)} \varepsilon$$

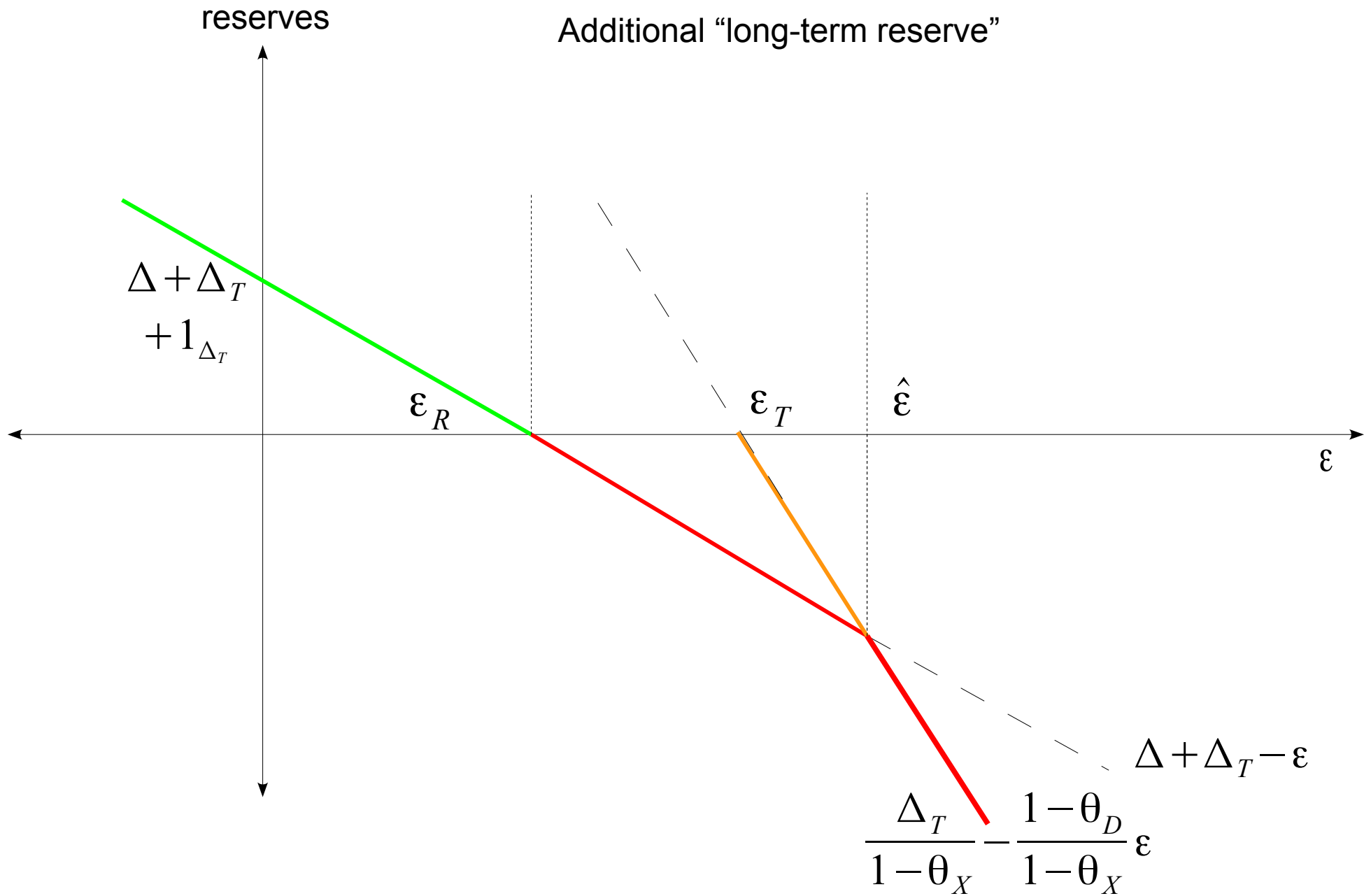
reserves

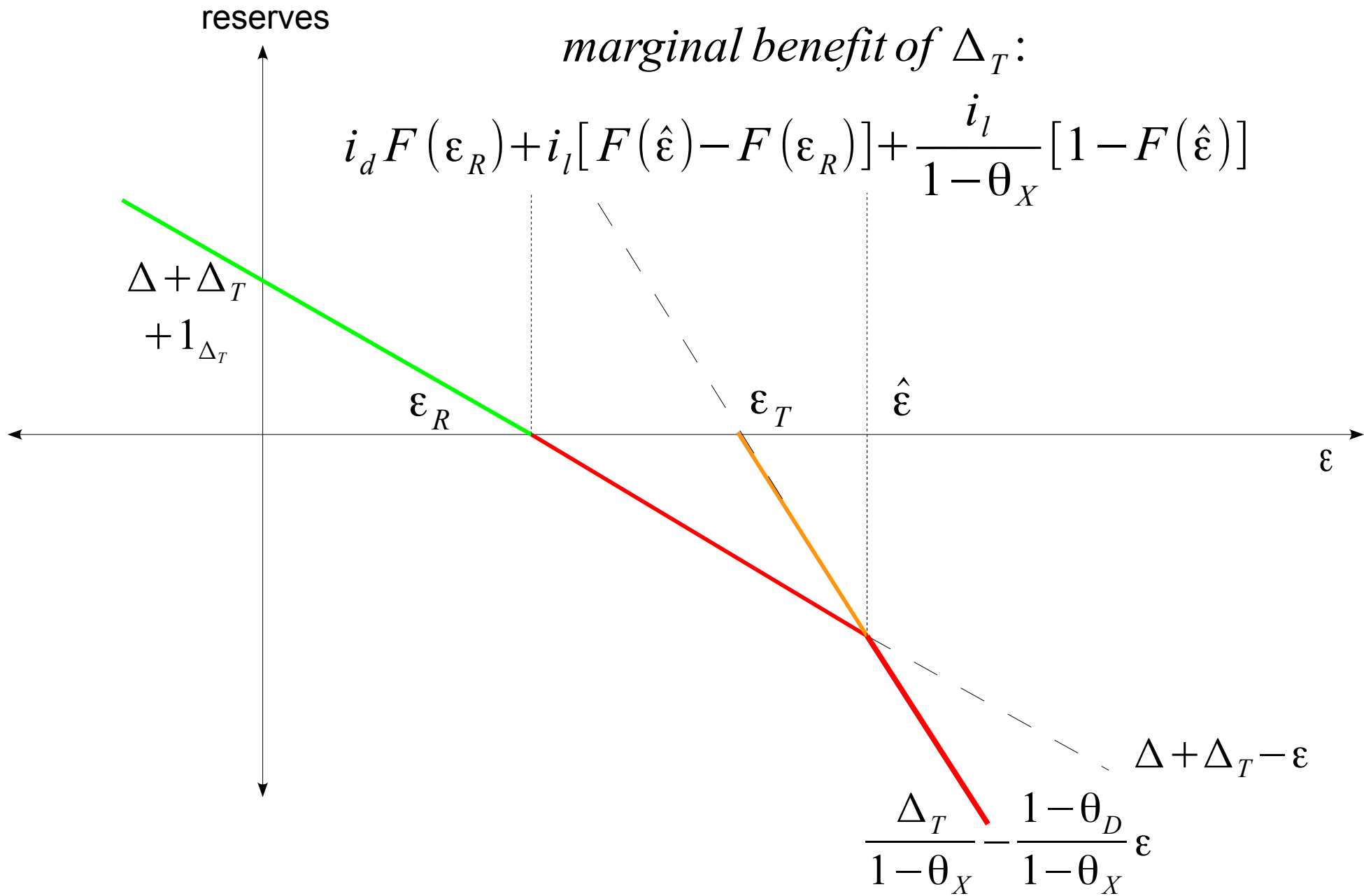












Summary of interesting results

- short rate in Bech-Keister < short rate in Poole
- The difference is bigger as the LCR is more likely to bind
- short-term rate decreases to deposit rate with large liquidity shock, or when the LCR is likely to bind...
- ...so draining reserves with non-HQLA may lower the overnight rate

Summary of interesting results

- the overnight borrowing volume is likely to decline as the LCR is more likely to bind
- Yield curves will be steeper at shorter maturity

Comments

- In equilibrium no net borrowing $\Delta = \Delta_T = 0$
- Implications on volumes?
- Term-funding volume is likely to increase

Comments

- Term-funding market is different from overnight market
- What is term-funding here?
 - Uncollateralized
 - Collateralized with NHQ-asset
- Only few/fewer counterparties would lend long-term relatively unsecured

Comments

- Segmentation likely to affect the results: dampen overnight lending?
- Could overnight loans “mutate”?
 - Any overnight loans can be replicated with term-funds borrowing/lending
 - Overnight rate given by “arbitrage”

Conclusion

- Very elegant paper
- Captures the main forces
- Main question: Where will banks position their LCR?