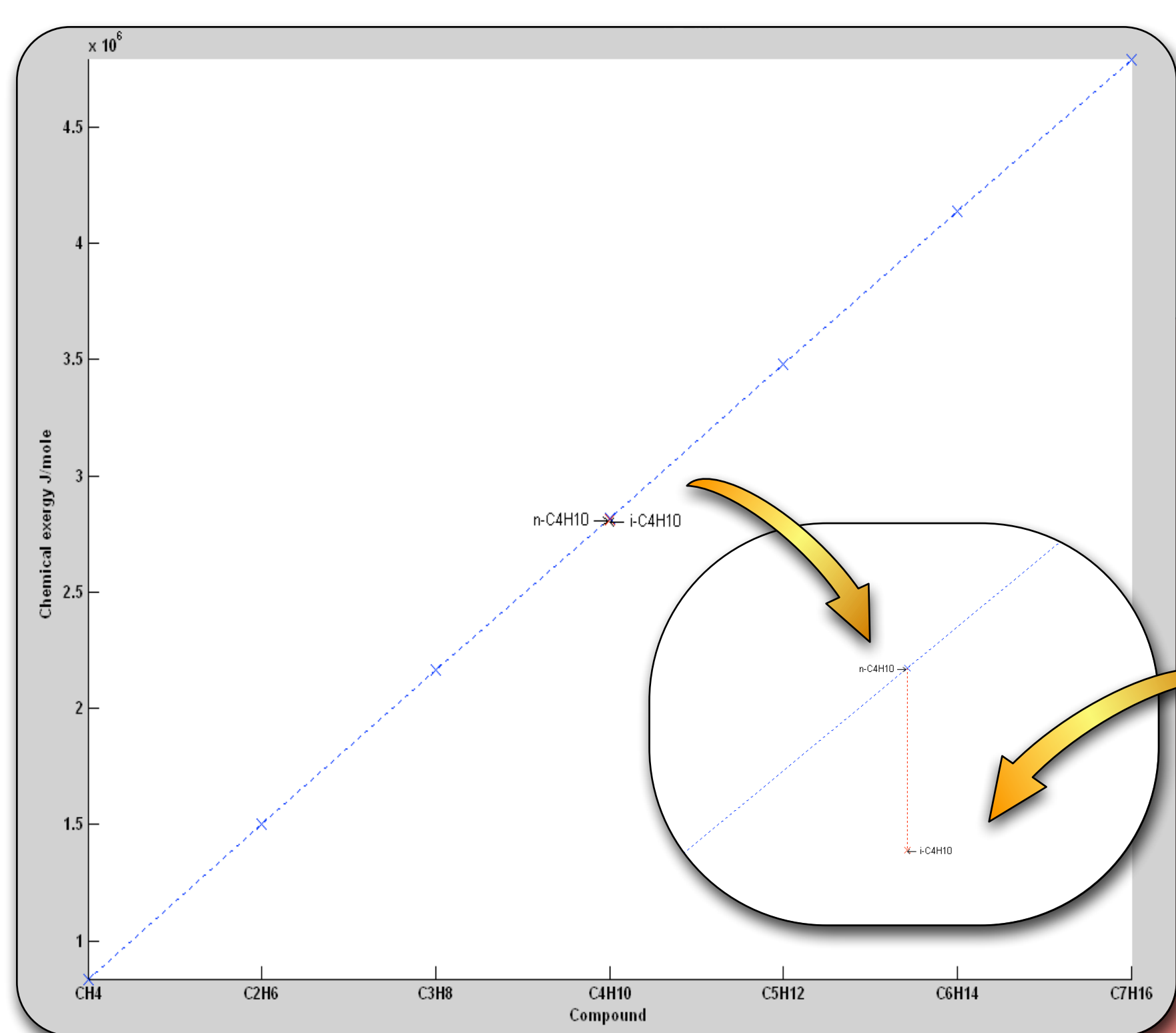


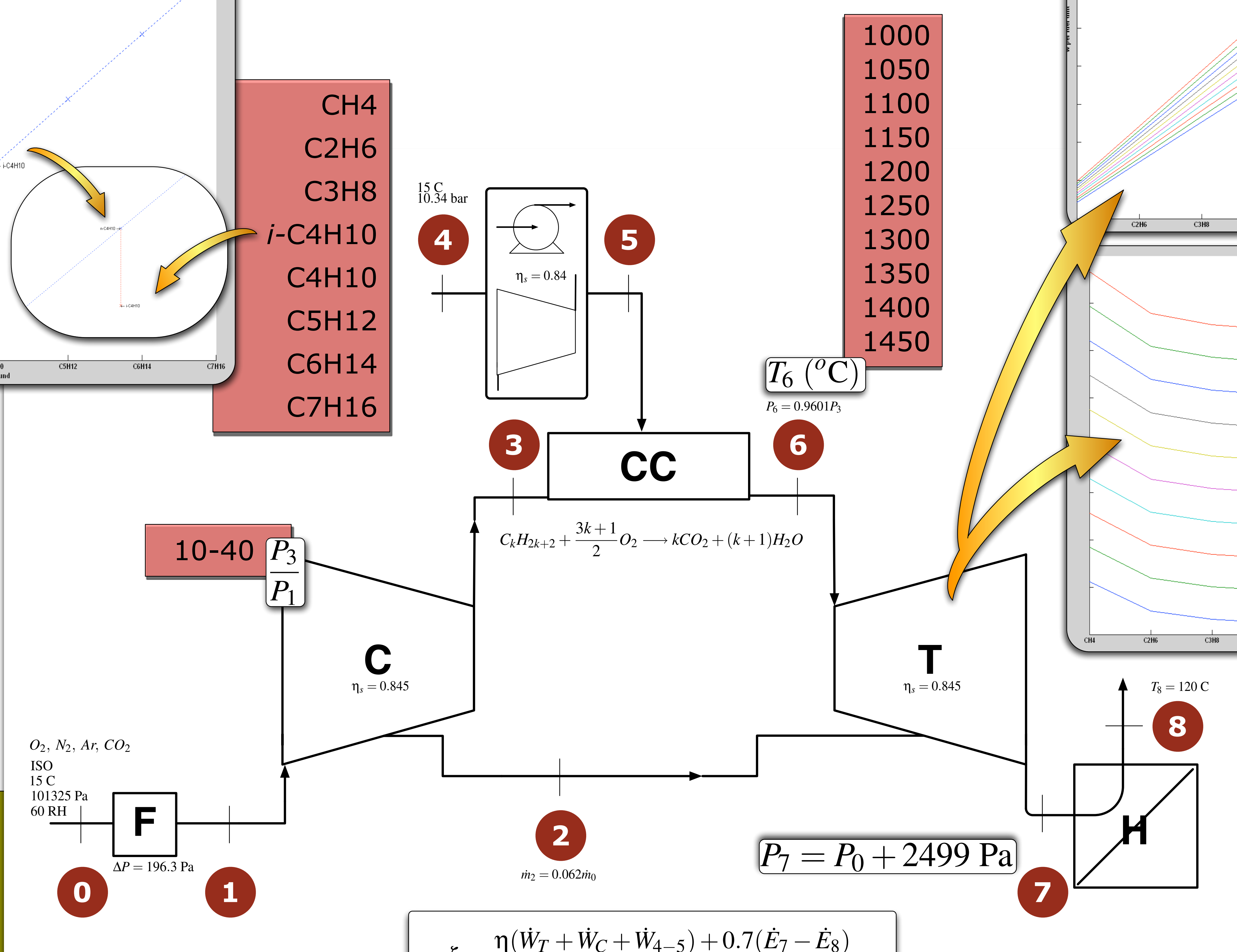
# Efficiency Dependence on Fuel in the Brayton Cycle

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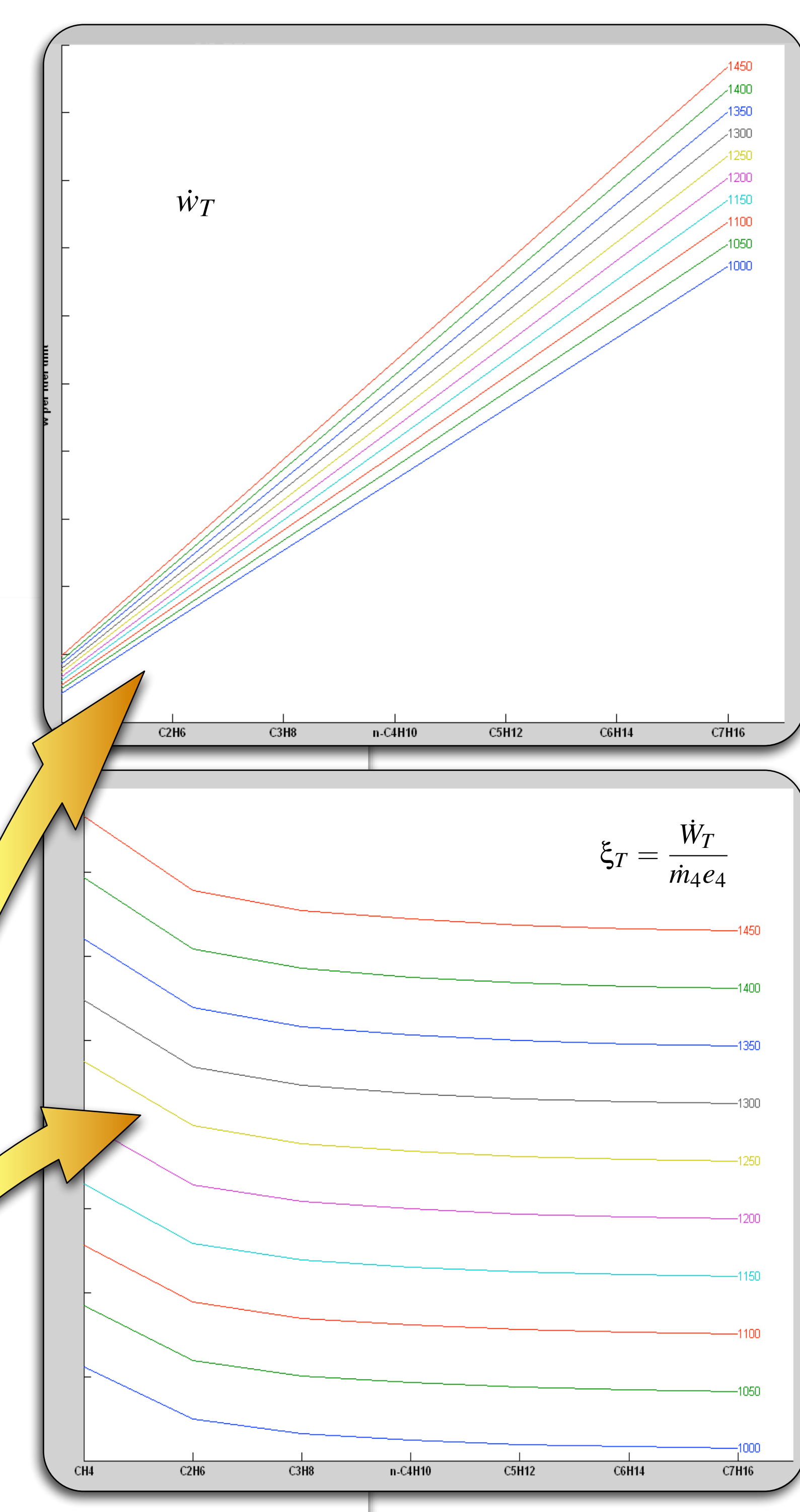
<http://www.udtermodinamica.net>  
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- CH4
- C2H6
- C3H8
- i-C4H10
- C4H10
- C5H12
- C6H14
- C7H16



- 1000
- 1050
- 1100
- 1150
- 1200
- 1250
- 1300
- 1350
- 1400
- 1450



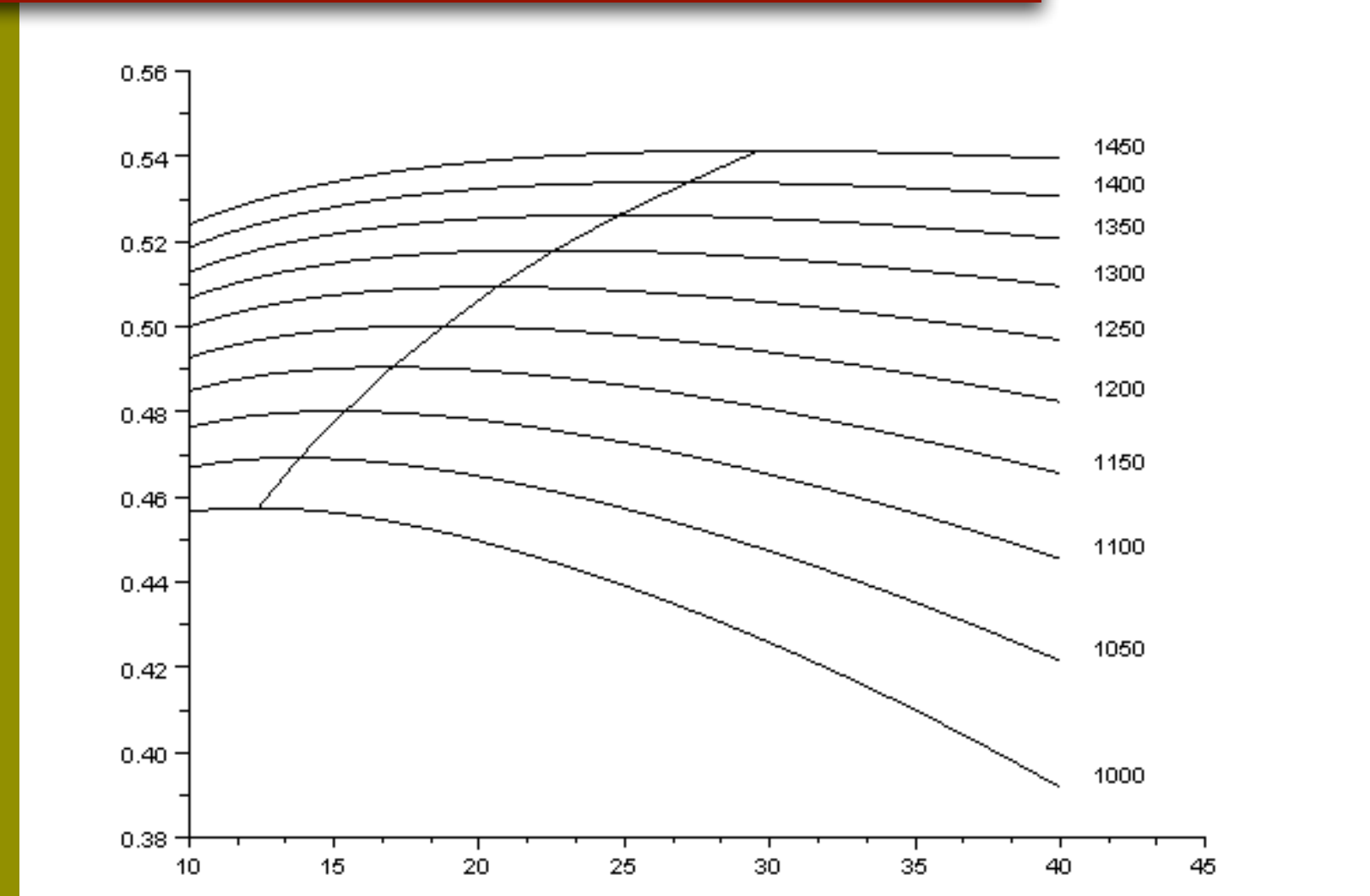
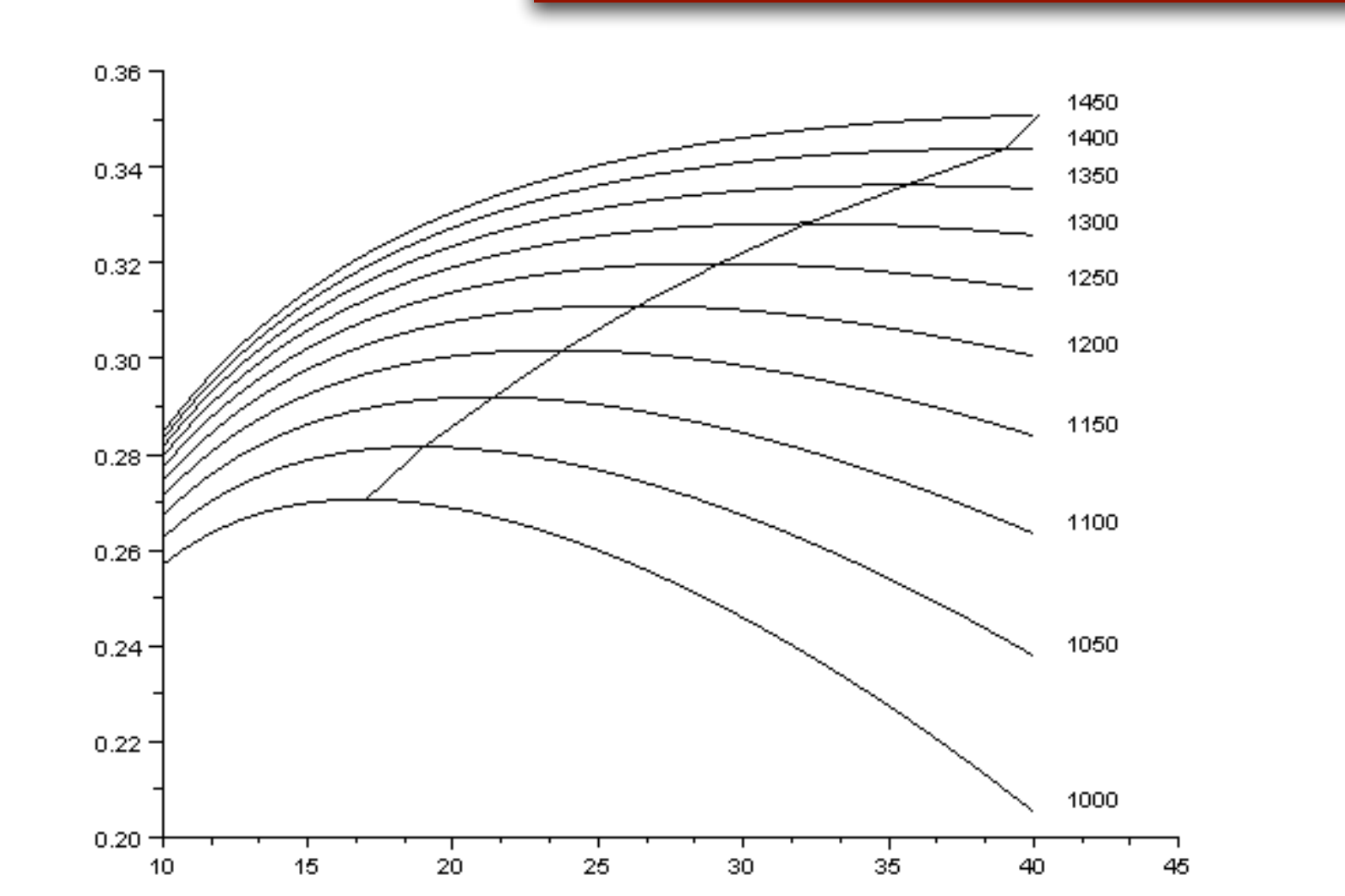
Simple cycle

Combined cycle

$$\xi = \frac{\eta(\dot{W}_T + \dot{W}_C + \dot{W}_{4-5}) + 0.7(\dot{E}_7 - \dot{E}_8)}{\dot{m}_4 e_4}$$

Exergetic Efficiency for CH4

Exergetic Efficiency for CH4



Decreasing trend both in simple and combined cycles  
Differences between consecutive compounds progressively smaller

differences with CH4

differences with CH4

