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אוניברסיטת חיפה

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## FINANCIAL TOOLS FOR EVALUATING CASH FLOWS (II)

(II) Dealing With Risk



Example: Systematic Risk



Example: Systematic Risk



**Required risk premium according to CAPM:** 

For security i:

 $\Pi_i = K \cdot Cov[r_i, r_m].$ 

Also for the market portfolio:

$$\Pi_m = K \cdot Cov[r_m, r_m]$$

Thus:

$$K = \frac{\prod_m}{Var[r_m]}.$$

So, the CAPM formula is:

$$\Pi_i = \frac{\Pi_m}{Var[r_m]} \cdot Cov[r_i, r_m],$$

or:

$$\Pi_i = \beta_i \cdot \Pi_m.$$

The security's risk premium is proportional to it's beta, *not to* Var[r<sub>i</sub>].