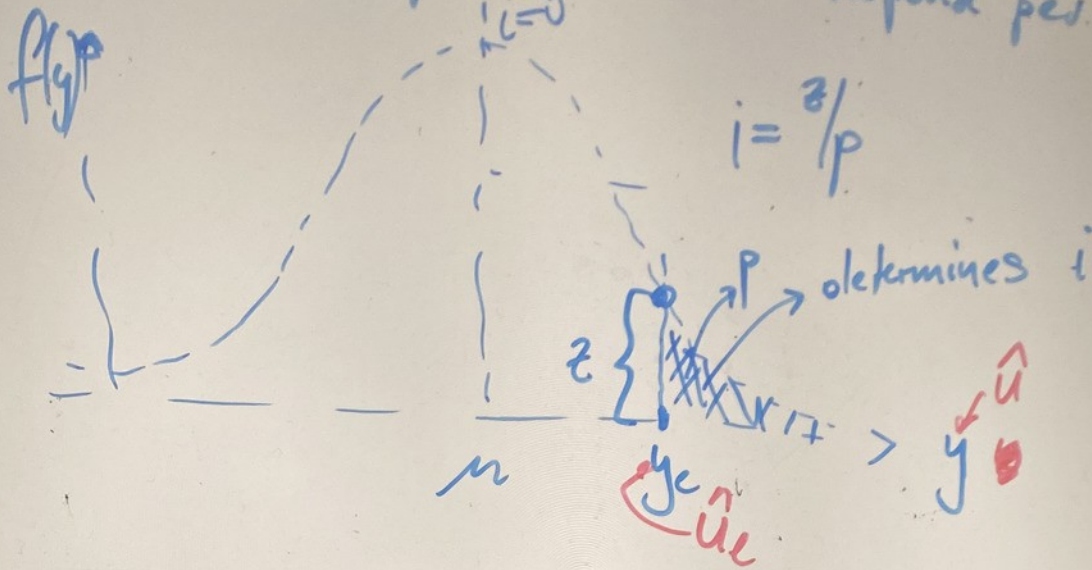


Selection response

□ Assume : Selection on \hat{u}_i

□ What is expected selection response per generation?



$$\square R = i \cdot r_{u,y}^2 \cdot \sigma_y$$

R : Selection response

i : selection intensity

$r_{u,y}^2$: Reliability

σ_y : phenotypic standard deviation = $\sqrt{\text{var}(y)}$

□ For Breeding programs: $\left| \frac{R}{L} \right|$ where L = Generation interval
→ selection response per year