Recap : 2023-10-20

$(1)$

□ New Model : Infinitesimal model → infinite number of loci in the genome

$$y_{ij} = \mu_i + u_i + e_{ij}^*$$

→ unknown pool of environment, plus dominance epistasis

↳ breeding value of animal i

↓ Known environment (herd, season, age,..)

(Later : Genomic selection : polygenic model
large but finite number of loci )

□ Decomposition of $u_i$ into parent average plus mendelian sampling term ($m_i$)

$$u_i = \frac{1}{2} u_s + \frac{1}{2} u_d + m_i$$

→ breeding value of animal d

→ breeding value of s

* breeding value of animal i

Animals s and d are parents of i