ancestral relationships between animals. Because with fixed effect woold: Yijk = h+/3; + u; + eijk " breeding value as fixed effect. I there is no possibility to account for anestrat relationship. Anostra! relationsp means that for animals iad Lov(ui, ui) + 0 Example: Animals 26 and 27 are full 81 bls = 1 cov (u26, u27) # 0 cov(x,y)= ZZA(x-E(x))(y-E(y))(y) discrete random bankbles  $cov(x,y) = \int (x-E(x))(y-E(y)) \cdot f(x) \cdot f(y)$