· From Linear Algebra it is known that symmetric matrices can be decomposed into a product of three factors: A = L.D. LT where L is lower triangular matrix => and D is a diagonal making

Based on LDL-decomposition of A, we can write

A' = (LT) 1. D'. L

and ([')", ")" and I' are to easy to compak

To get to L and D, we are going to have a look al different decompositions of breeding values:

- breeding value ut of animal it can be written as