Title:
Equivalence of Cholesky Factorization and Absorption

Abstract:
This is an expository talk that demonstrates that absorption can be achieved through the use of a Cholesky factorization algorithm and a number of computationally inexpensive adjustments. Further, it can be shown that this holds true for Symmetric Positive Semi-Definite (SPSD) and so absorption is actually the first extension of Cholesky factorization to SPSD matrices. The key application is to ASREML, a program used for fitting linear mixed models, particularly useful in the animal and plant breeding industries.