On the maximum likelihood degree of mixed normal models with two variance components

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We extend the results concerning the upper bounds for the maximum likelihood degree and the REML degree of the one-way classification random model presented in Gross *et al.* (2012) to the case of the normal mixed linear model model with two variance components. Then we prove that both parts of Conjecture 1 in the paper of Gross *et al.*, which concerns a certain extension of the one-way classification random model, are true under fairly mild conditions.

References

[1] Gross, E., Drton, M. and Petrović, S. (2012), *Maximum likelihood degree of variance component models,* Electron. J. Statist. 6, 993–1016.