Errata for
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The second matrix transposes applied to the first two expressions in (15), namely $H^T \Delta H^T$ and $(Y^T H + Y^T F + X_0)^T \Delta (Y^T H + Y^T F + X_0)^T$, are erroneous. The correct equation is:

\[
J = E \left[ H^T \Delta H + (Y^T H + Y^T F + X_0)^T \Delta (Y^T H + Y^T F + X_0) \right] + \lambda \text{Var} \left[ (Y X_0 + \Psi H + \Psi F)^T R \right]
\]