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TITLE: SOME CONTRASTS AND QUESTIONS IN THE COMPARISON
OF ANALYTICITY INFINITE AND INFINITE DIMENSIONS

ABSTRACT: There are criteria on invertibility of analytic mappings F from
domains in \( \mathbb{C}^n \) into \( \mathbb{C}^n \). These depend on the idea of determinants of the
Jacobian matrices of the mapping F. In infinite dimensions there are one to one
analytic mappings G from the ball in a Hilbert space into itself which do not have
analytic inverses. We will discuss an improvement of a result of Aurich that
implies that such mappings G have an analytic inverse. (work in progress)