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The large scale Einstein evolution problem

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Asymptotic considerations do not only play an important role in the interpretation of gravitational fields but also in deriving large scale existence results. With this in mind we revisit certain existence and non-linear stability results for solutions to Einstein's field equations which have been obtained under various assumptions on the matter fields and the sign of the cosmological constant and discuss various questions concerning the specific asymptotic behaviour of the fields, which has been derived or imposed in the different cases.