The Conformal Method and Matter Models

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We discuss the application of the conformal method to generating non-vacuum initial data sets. There are a number of different schemes for including matter in the conformal method including so-called scaling and non-scaling sources. These techniques have been presented in the literature as ad-hoc methods. We show that there is a principled idea that leads to a variation of scaled sources and that leads to decoupling of the momentum and Hamiltonian constraints in the CMC case.