THE RELATIVISTIC BOX MODEL

J. G. Kirk

Max-Planck-Institut für Kernphysik, D-69029 Heidelberg.
`John.Kirk@mpi-hd.mpg.de`/Fax: (0 62 21) 51 65 49

The equations governing the 'box model' approach to diffusive shock acceleration are derived and generalised to apply to acceleration at relativistic shocks. The difficulties encountered in describing the particle spectrum close to the point where losses balance gains are discussed in relation to the question of 'pile-ups'.