

MP solutions with discrete translational symmetry

We introduce two distinct solutions of Einstein-Maxwell(-dilaton) equations from Majumdar-Papapetrou solutions. The first one is constructed via dimensional reduction and is given in closed form, the other one involves infinite series with no closed formula. In addition to being axially symmetric and static, the solutions are reflection symmetric with respect to some special planes and exhibit a discrete translational symmetry along the axis. We discuss their properties, horizons, singularities, the convergence of sums, and conserved quantities.