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Static Electrovacuum Spacetimes with No Event Horizons

For the Einstein-Maxwell system with any given electromagnetic Lagrangian, we construct static, spherically symmetric, asymptotically flat solutions that have no event horizon and are either non-singular or only mildly singular on the axis of symmetry. We show that the solutions corresponding to a scaled version of the "ether" law can have any given ADM mass and charge. Finally we report on some work in progress on the radiation probing of static spherically symmetric spacetimes with a naked conical singularity on the axis.