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Optimizing capacity with nonnegative scalar curvature

Inspired by Bartnik's well-known problem of minimizing the ADM mass among all asymptotically flat manifolds of nonnegative scalar curvature extending some compact region, we will discuss a complementary problem of maximizing the capacity over the same class of objects. We will also tie this in with joint work with Raquel Perales and Jim Portegies on the upper semicontinuity of capacity for Sormani–Wenger intrinsic flat convergence.