

### **Asymptotic staticity and regularity at null infinity**

We consider solutions to Einstein's vacuum field equations which develop from time reflection symmetric, asymptotically flat Cauchy data. The requirement that the conformal structure defined by the metric field admits an extension to null infinity of a certain regularity appears to imply that the data are asymptotically static up to a certain order. We revisit the available evidence and present results on static vacuum data which we expect to contribute to a full proof of this conjecture.