

Asymptotics of Dynamical Spacetimes and Radiation

mardi 9 avril 2024 14:30 (55 minutes)

In this talk, I will discuss some results on the asymptotic behavior and radiation for a general class of spacetimes. This will include results on gravitational radiation and memory for sources that are not stationary outside of a compact set, but whose gravitational fields decay more slowly towards infinity. We will also show that angular momentum at future null infinity is well defined for asymptotically-flat spacetimes with a term homogeneous of degree -1 in the initial data metric, that is it may include a non-isotropic mass term. Finally, we will also discuss peeling (that is, how peeling stops) for the Weyl curvature components at future null infinity for these spacetimes.

Orateur: BIERI, Lydia (University of Michigan)