

物理学セミナー

題目：

Tail Effects in Gravitational Wave Fluxes for
Generic Eccentricity

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概要：

Gravitational wave tail effects result from the scattering of waves off of the spacetime curvature of the system that produced them. These tails modify the energy and angular momentum fluxes carried by gravitational waves to spatial infinity. The tail contributions to the fluxes have proven to be difficult to calculate analytically for generic eccentric orbits, with analytic results only available for binaries with small eccentricity. In this talk, I will describe a new technique that allows us to re-sum the tail enhancement factors for binaries with generic eccentricity by using the uniform asymptotic expansion of Bessel functions.

興味をお持ちの方は、ぜひご参加下さい。

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