

Impact and Legacy of the 2010 Paper on Self-force and EOB

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In a visionary 2010 paper, T. Damour identified the potential of self-force calculations to inform the construction of a strong-field two-body Hamiltonian in general relativity.

The paper, in a way, foretells much of the history of self-force work in the decade that followed. Six self-force calculations were proposed, each providing a handle on a distinct aspect of the strong-field conservative dynamics. Five of these calculations have been performed so far, paying handsome dividends. The sixth calculation is the focus of intense current effort. This talk will give a perspective on the long-lasting legacy of the 2010 paper.

Orateur: BARACK (REMOTE), Leor (University of Southampton)