

# The Effective-One-Body Approach to the Relativistic Two-Body Problem: from Birth to Adulthood

*Tuesday, October 12, 2021 2:30 PM (30 minutes)*

After reviewing my adventures in gravitation at IHES in 1997-1999, and the original motivations that led to the development of the effective-one-body formalism, I will discuss the path that guided the development of highly accurate waveform models for LIGO-Virgo's searches and inference studies, including the synergistic interplay between analytical and numerical relativity. I will conclude with highlights on the science that these waveform models have unveiled, focusing on the latest LIGO-Virgo's observing run.

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