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SENR/NRPy+: Black Hole Binaries on the Desktop IAN RUCHLIN, ZACHARIAH ETIENNE, West Virginia University, THOMAS BAUMGARTE, Bowdoin College — We report on novel techniques designed to enable state-of-the-art black hole binary evolutions from inspiral through ringdown with the SENR/NRPy+ numerical relativity code on consumer-grade desktop computers. These strategies will make possible fully general relativistic gravitational waveform follow-up campaigns at unprecedentedly large scales, as well as the creation of enormous gravitational waveform catalogs with unique systematics.

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