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Binary compact object mergers in Einstein-Maxwell-Dilaton theories ERIC HIRSCHMANN, Brigham Young University, LUIS LEHNER, Perimeter Institute, STEVE LIEBLING, Long Island University, CARLOS PALENZUELA, Universitat de les Illes Balears — We present work on the dynamics and gravitational wae emission of binary black holes in a modified theory of gravity. Our particular model is inspired by low energy string theory and includes additional matter fields, such as a dilaton, not necessarily present in vacuum general relativity. We consider deviations from standard predictions for gravitational wave signatures and examine alternative scalar and electromagnetic channels for emission.

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