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Simulating the emission from shocked disks and black hole–neutron star mergers MATTHEW ANDERSON, Louisiana State University, LUIS LEHNER, Perimeter Institute, DAVID NEILSEN, Brigham Young University, MIGUEL MEGEVAND, Louisiana State University — Astrophysical systems that radiate strongly in both electromagnetic and gravitational wave bands are of particular interest for study since the combined information can provide access to a number of rich phenomena. We simulate the possible electromagnetic emission from two scenarios: a disk perturbed by a recoiling super-massive black hole and the post-merger remnant disk from a black hole–neutron star merger. We present radiation transfer results from several configurations of these systems using different radiation models.

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