



**Figure 12.** A measure of *r*-process strength across our parameter space, using a wave frequency of  $2 \times 10^3 \text{ rad s}^{-1}$  and  $Y_{e,\text{eq}} = 0.48$ , and using the shock heating prescription from equation (13). Two regimes of *r*-process production emerge: a region of high wave and neutrino luminosities across all masses, driven by shock heating; and a region of moderate wave and neutrino luminosities driven by the wave stress, which becomes significant at larger neutron star masses.