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The Helium and Lead Observatory and the Supernova Early Warning System JUSTIN VASEL, ALEC HABIG, University of Minnesota Duluth, CLARENCE VIRTUE, Laurentian University, HALO COLLABORATION — A core collapse in the Milky Way will produce an enormous burst of neutrinos that are detectable on Earth. One such detector is the Helium and Lead Observatory (HALO) located at SNOLAB in Ontario, Canada and is the first detector to use lead as an interaction medium for supernova neutrinos. HALO is designed to be a low-maintenance, high-uptime detector dedicated solely to the search for galactic supernova neutrinos. Along with several detectors around the world, HALO will serve as a member of the Supernova Early Warning System (SNEWS), a network designed to alert astronomers as soon as possible after the detected neutrino signal.

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