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Neutrino counterpart of kHz GW sources

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Multimessenger astrophysics provides unique and valuable insights into the properties and processes of the physical universe. The recent discovery of gravitational waves and high energy cosmic neutrinos, marked the beginning of a new era of the multimessenger astronomy. These new messengers, along with electromagnetic radiation and cosmic rays, give new insights into the most extreme energetic cosmic events. Among them supernovae explosion is one of the challenging targets of this new astronomical approach. We developed a machine learning algorithm to further improve the detectability of such type of source. Prospects for a third generation gravitational wave detector will be presented.

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