Search for Gravitational Wave Bursts from Supernovae with Matched Filtering Technique

• **Goal:**
  - Look for an upper-limit of gravitational wave burst from supernovas.
    - Generate waveform templates.
    - Develop Matched filtering search code.
    - Develop data processing pipeline for the matched filtering event investigation.
    - Veto (Aux. IFO, PEM and epoch veto).
    - Perform Monte Carlo simulation to estimate the detection probability.
    - Background event rate (Time shift analysis).

• **People:**
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• **Connection to other S2 proposals:**
  - Matched filter - CSUDH
  - Veto investigation - PSU, MIT and Oregon