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Gravitational waves from the sound of first-order phase transition

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Phase transition gravitational waves could be a novel probe for fundamental physics in the near future. Hence, precise calculation of phase transition gravitational waves is essential to revealing many unresolved puzzles in our universe. I will discuss a framework that could allow us to omit some unnecessary approximations and give a relatively more accurate calculation of gravitational waves generated by the sound wave mechanism. I will use a benchmark model to demonstrate the procedures of this framework and show the corresponding results.

Paper info

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