



Contribution ID: 270

Type: **Parallel talks**

Did NANOGrav hear the sound of the Universe boiling?

Friday 21 July 2023 15:00 (20 minutes)

The sound shell source from a cosmic phase transition is a compelling explanation for the stochastic gravitational wave background recently seen by various PTA collaborations. I discuss motivations for such a phase transition as well as comparing the sound shell model using the full velocity profile, as opposed to the broken power law that results from using the rms fluid velocity. Finally I give some theoretical improvements that can be made on this analysis.

Author: WHITE, Graham (Southampton)**Presenter:** WHITE, Graham (Southampton)**Session Classification:** Particle cosmology: Theory and Experiment**Track Classification:** Particle cosmology: Theory and Experiment