

## Exploring New Horizons: Transforming Astronomy Through Sonification and Multidisciplinary Innovation



**KEYWORDS:** Sonification, Astronomical Data Exploration, Accessibility, Interdisciplinary Integration, Sound I

**SUMMARY:** Sonification, though a relatively young academic discipline, is rapidly gaining momentum as a disciplinary technique. Its trajectory mirrors that of machine learning, which, developed in other fields, has found success in other disciplines. Sonification, utilizing sound's inherent multidimensionality, holds significant potential for exploring large, complex, and noisy datasets. It enables the effective detection of subtle information and overcomes the limitations of visual methods. Our session aims to unite Spain's burgeoning sonification community with colleagues to discuss the current state and future prospects of the field. This session will not only showcase research in sonification but also introduce the discipline to astronomers unfamiliar with its potential, much like how it has been integrated into astronomy.

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