



European Week of Astronomy and Space Science 3-6 April 2018- Liverpool

Wonders in Asteroseismology and their Revolution for Astrophysics

📅 05.04.2018 ⌚ 11:30 - 12:00 📍 Hall 1A 🗨️ Plenary

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Asteroseismology is a relatively new branch in stellar astrophysics, which has recently entered its prime thanks to high-precision photometry from space telescopes. While primarily dedicated to exoplanet hunting, the space photometry currently revolutionises our knowledge of stellar interiors. The immense advantage of having long-term uninterrupted data from space with a much higher precision compared to data from ground-based telescopes, provides us with vastly superior opportunities to probe stellar physics. We illustrate success stories in asteroseismology and discuss how these create new opportunities for other fields in astrophysics, such as galactic archeology and exoplanet studies. We highlight the appealing prospects from ongoing and future space missions complemented by large-scale ground-based surveys for astrophysics.