

## Astrophysical transients and time domain astronon

**KEYWORDS:** Time-domain, transients, high-energy, supernovae, nova, kilonova, surveys, big data, observa

**SUMMARY:** The study of astrophysical transients is key to understanding the final stages of single and bin in turn is connected with the progenitors of gravitational wave sources. This topic is becoming of a grov worldwide. The start of operations of new public time-domain surveys is providing hundreds of new astroph per day, and these numbers are only expected to grow within the next decade, as new large surveys will : This opens new opportunities to study the most energetic astrophysical phenomena in the Universe, : magnetar flares, ultra-luminous X-ray sources, supernovae, gamma ray bursts, kilonovae, stellar mergers o events. The study of astrophysical transients is an emerging field of research in Spain. The goal of this SEA is to provide national and international visibility of astrophysical transients' research in Spain and rise between the teams

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