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The ALeRCE Broker

Tuesday, May 7, 2024 9:55 AM (20 minutes)

ALeRCE (http://alerce.science/) is an alert annotation and classification system led by an interdisciplinary and interinstitutional group of scientists based in Chile. ALeRCE focuses primarily on transients, variable stars, and stochastic sources. Thanks to its state-of-the-art machine learning models, ALeRCE has become the third-leading contributor in reporting candidates to the Transient Name Server, while enabling new avenues for scientific exploration across diverse astrophysical phenomena. This talk will provide an overview of the current status of ALeRCE, highlighting its achievements and contributions to date. Additionally, it will delve into the ongoing challenges that the project is actively addressing, while outlining plans for the future, particularly in anticipation of the Vera C. Rubin Observatory.

Presenter: Dr CABRERA, Guillermo (Universidad de Concepción)

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