

VST in the era of the large sky surveys



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QSOs and gravitational lenses from UVAS/ATLAS

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The u-band VST ATLAS Survey (UVAS) is the Chilean extension of the ATLAS survey. This correspond to a second observation in the u-band for the whole ATLAS survey area, effectively doubling the exposure time of the parent survey. One of the main goals of ATLAS/UVAS is the identification of a significant number of QSOs (surface density of ~ 100 per sq deg) to trace the BAO for cosmological applications.

In this work I will present our efforts to exploit ATLAS/UVAS using machine learning and deep learning algorithms, in collaboration with computer science researchers, to identify interesting samples of objects such as QSOs and strongly lensed galaxies.

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