



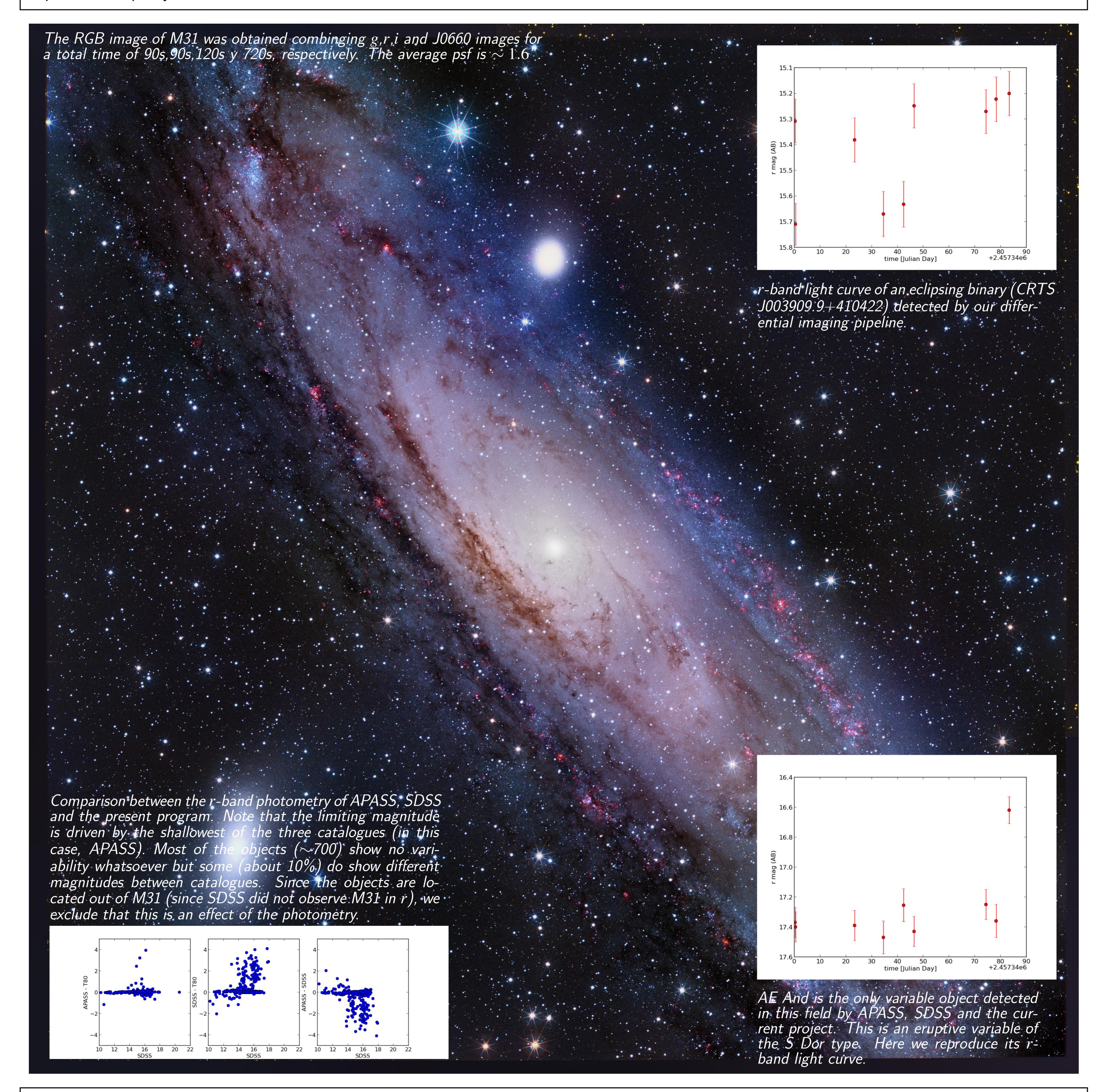
## M31 @ Observatorio Astrofísico de Javalambre

A. Ederoclite<sup>a</sup>, H. Vázquez Ramió<sup>a</sup>, J. L. Lamadrid<sup>a</sup>, B. Blanco Siffert<sup>c</sup>, I. San Roman<sup>a</sup>, D. Cristóbal-Hornillos<sup>a</sup>, J. Varela<sup>a</sup>, P. Coelho<sup>d</sup>, M. Moles<sup>a,b</sup>, A. J. Cenarro<sup>a</sup>, A. Marín-Franch<sup>a</sup>, M. Chioare Díaz-Martín<sup>a</sup>, R. Iglesias Marzoa<sup>a</sup>, V. Tilve<sup>a</sup>, S. Rodriguez<sup>a</sup>, N. Maicas<sup>a</sup>, C. López San Juan<sup>a</sup>, K. Viironen<sup>a</sup>, G. Vilella Rojo<sup>a</sup>, R. Logroño García<sup>a</sup>, J. Abril Ibañez<sup>a</sup>

<sup>a</sup>Centro de Estudios de Física del Cosmos de Aragón (CEFCA); <sup>b</sup>Instituto de Astrofísica de Andalucía, Consejo Superior de Investigaciones Científicas (CSIC); <sup>c</sup>
Universidade Federal de Rio de Janeiro; <sup>d</sup> Universidade de São Paulo

## **Abstract**

M31 is undoubtedly the most important and studied extragalactic object of the Northern hemisphere. One of the dominant galaxies of the Local Group, M31 has a fundamental role in stellar evolution studies. This poster shows preliminary results of a monitoring program carried out with the JAST/T80 from the Observatorio Astrofísico de Javalambre, aimed at the study of the variables in this galaxy. This telescope's unique field of view and filter set allows for variability studies of unprecedented quality.



Based on observations made with the JAST/T80 telescope at the Observatorio Astrofísico de Javalambre, in Teruel, owned, managed and operated by the Centro de Estudios de Física del Cosmos de Aragón. We thank the OAJ Data Processing and Archiving Unit (UPAD) for reducing and calibrating the OAJ data used in this work. The OAJ is funded by the Fondo de Inversiones de Teruel, supported by both the Government of Spain (50%) and the regional Government of Aragón (50%). This work has been partially funded by the Spanish Ministerio de Ciencia e Innovación through the PNAYA, under grants AYA2006-14056 and through the ICTS 2009-14, and the Fundación Agencia Aragonesa para la Investigación y Desarrollo (ARAID). The UPAD acnkowledges support from Spanish MINECO (FCDD10-4E-867), cofunded by the European Fund for Regional Development (FEDER) and Fondo de Inversiones de Teruel (FITE).