

Meeting the near neighbours – (1)
By Martin P Nicholson – newbinaries@yahoo.co.uk

Source - *Ultra-cool dwarfs: new discoveries, proper motions, and improved spectral typing from SDSS and 2MASS photometric colors* by Zang et al. A&A 497, 619–633 (2009)

A photometric selection was made based on the chart on page 2 of the article.

$$15 < z < 20.5$$

$$\text{and } (i - z) > 2$$

$$\text{and } (r - i) > 1.95$$

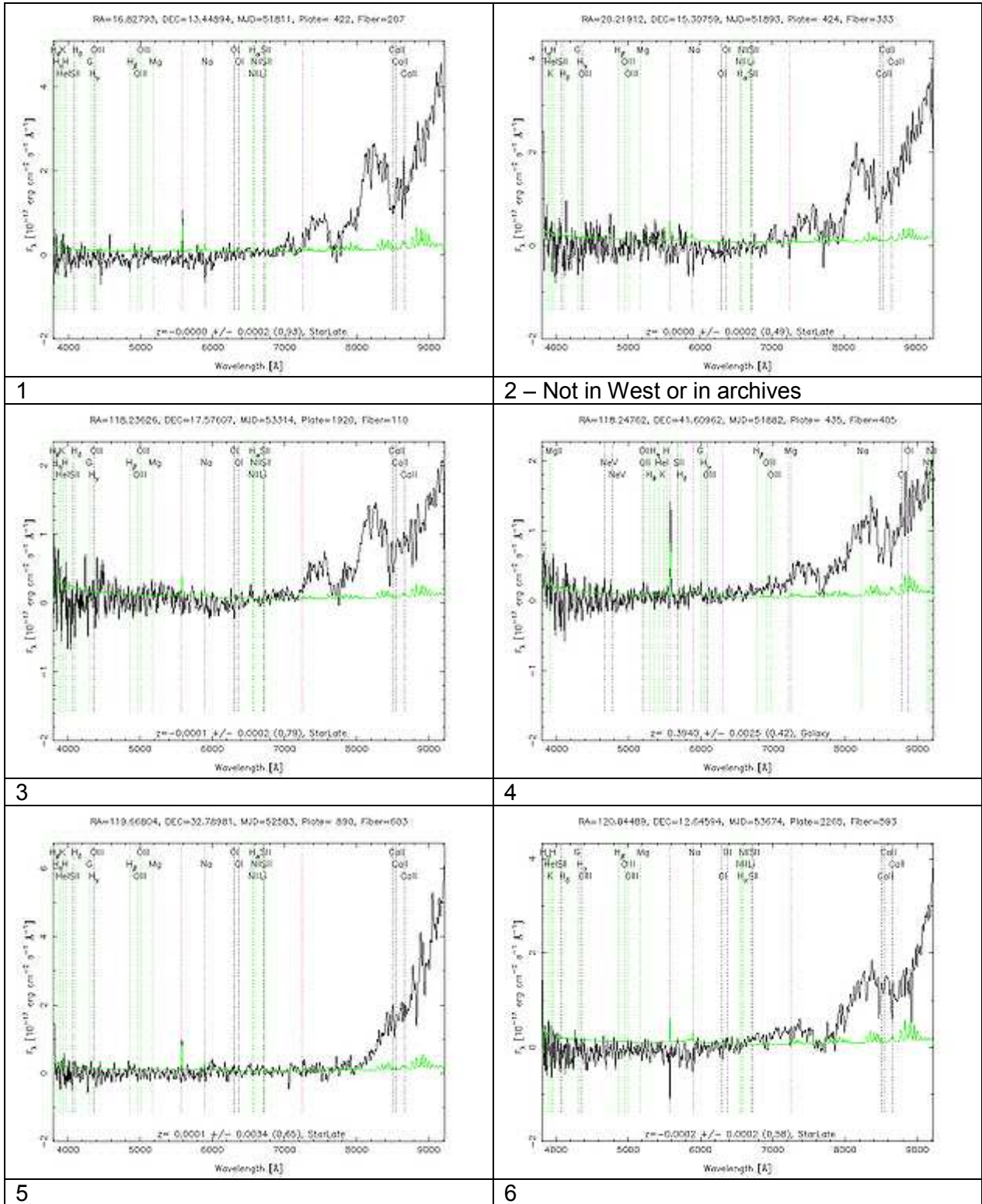
67 candidates were identified and the spectra are presented below. These were then cross matched the results from *Constraining the age-activity relation for cool stars: the Sloan Digital Sky Survey Data Release 5 low-mass star spectroscopic sample*. By West et al Astron. J., 135, 785-795 (2008) and against *A compendium of all 752 known L and T dwarfs*

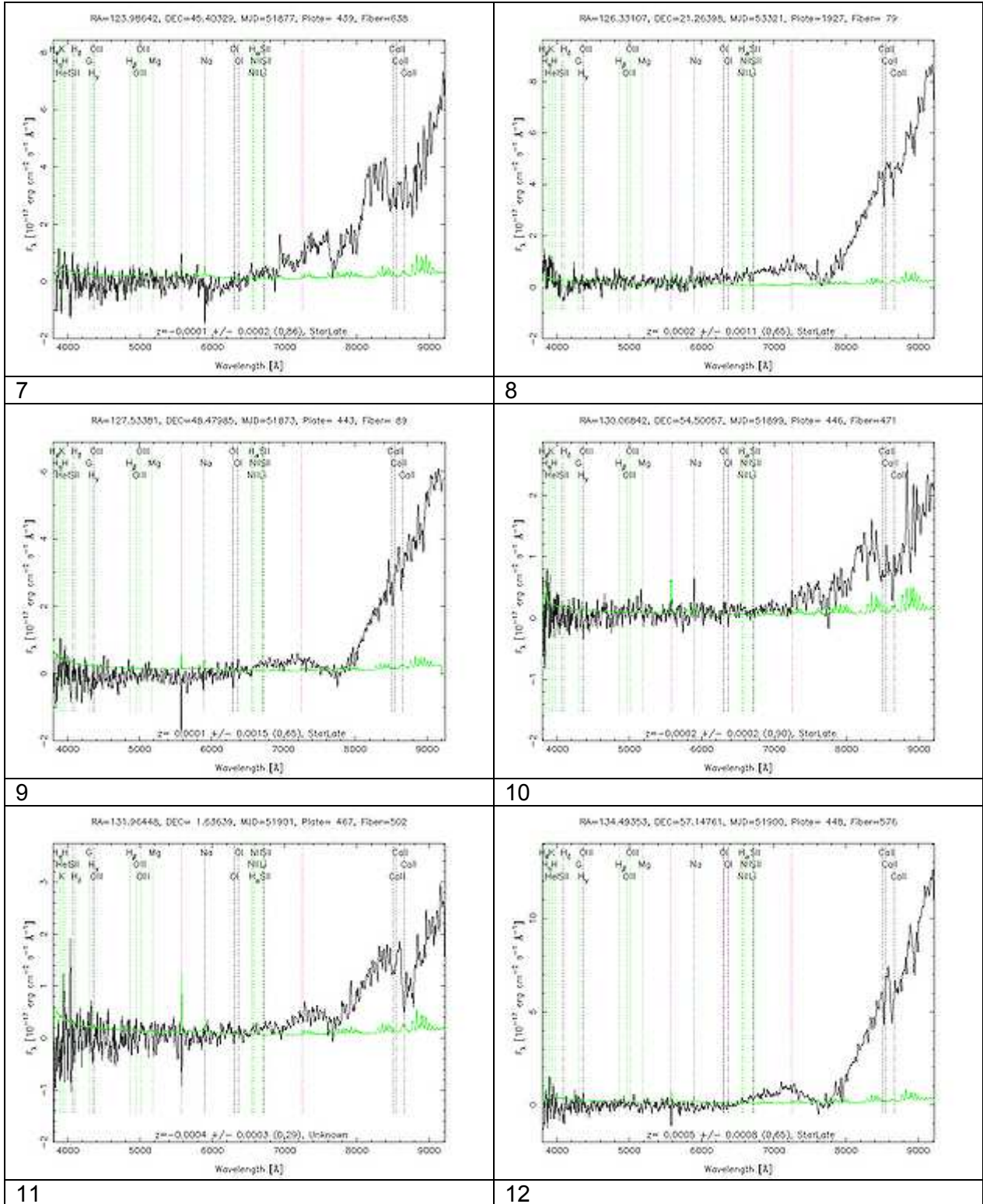
<http://spider.ipac.caltech.edu/staff/davy/ARCHIVE/index.shtml>

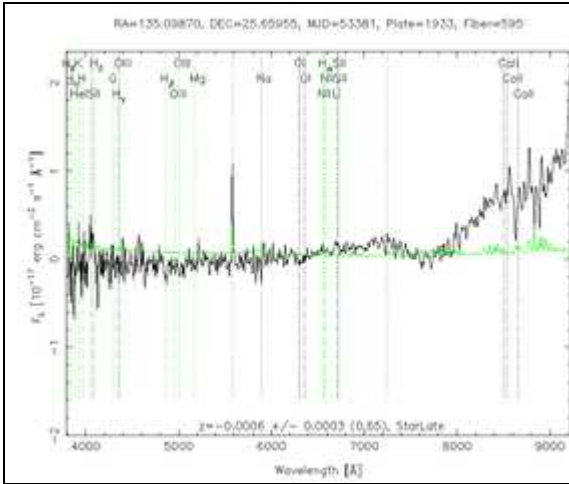
All the key facts about these stars has been made available at

www.martin-nicholson.info/jadm/Zang.xls

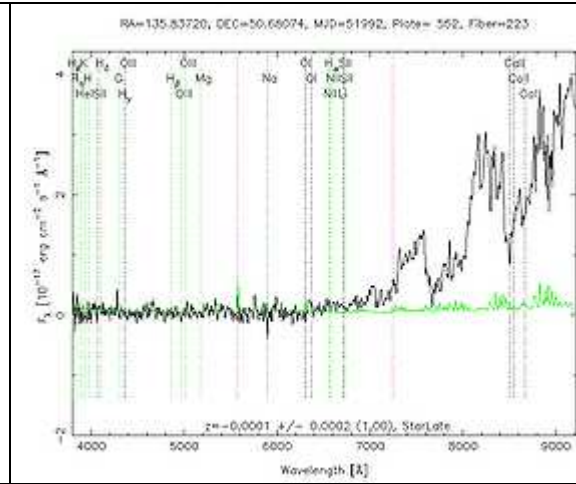
Funding for the SDSS and SDSS-II was provided by the Alfred P. Sloan Foundation, the Participating Institutions, the National Science Foundation, the U.S. Department of Energy, the National Aeronautics and Space Administration, the Japanese Monbukagakusho, the Max Planck Society, and the Higher Education Funding Council for England. The SDSS was managed by the Astrophysical Research Consortium for the [Participating Institutions](#).



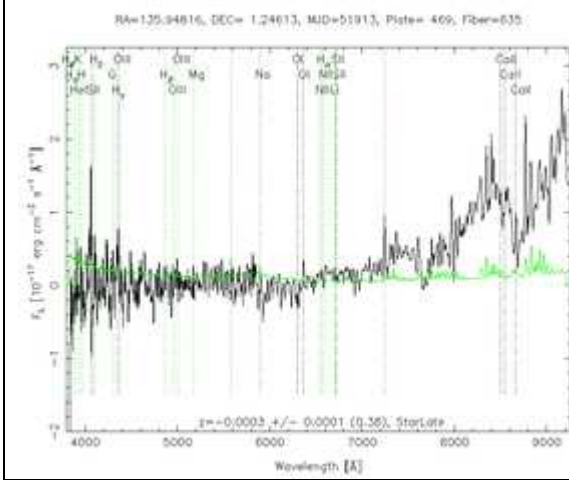




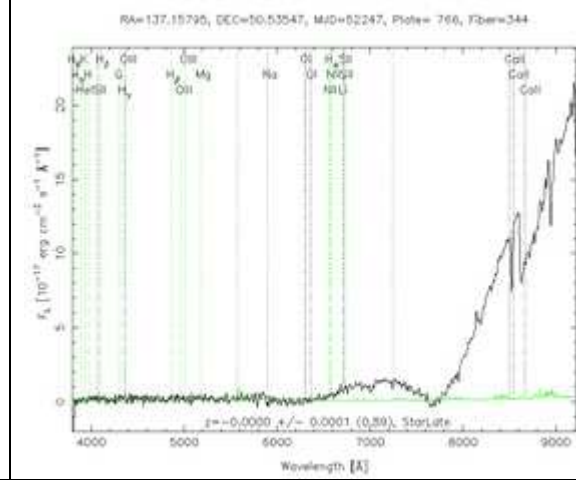
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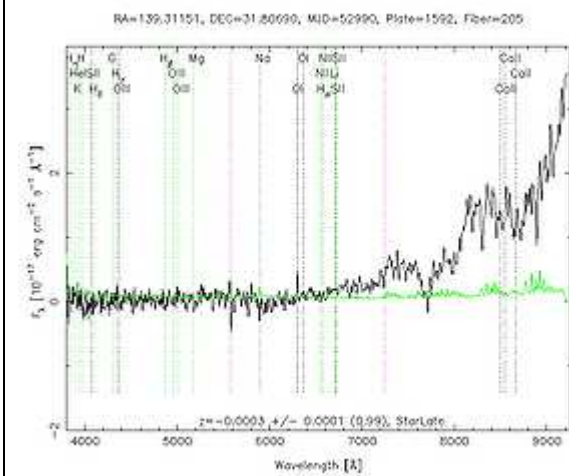
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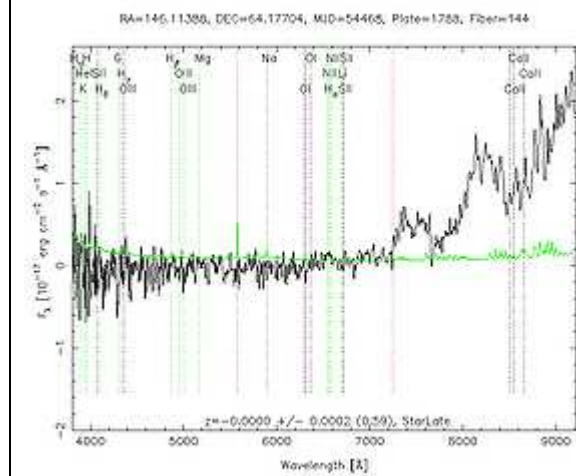
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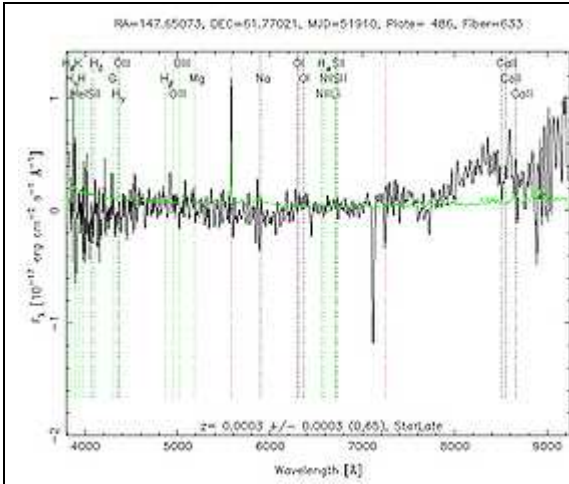
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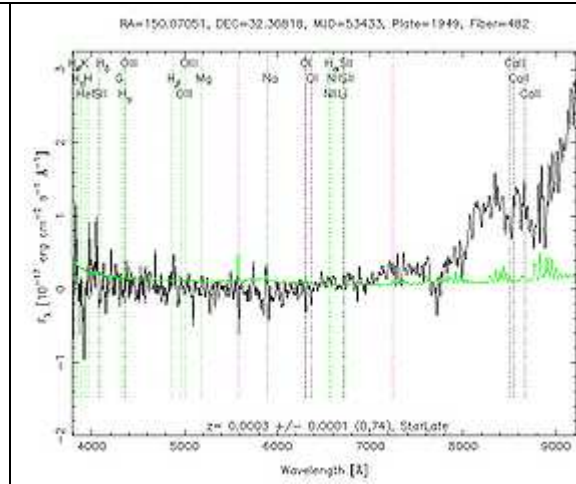
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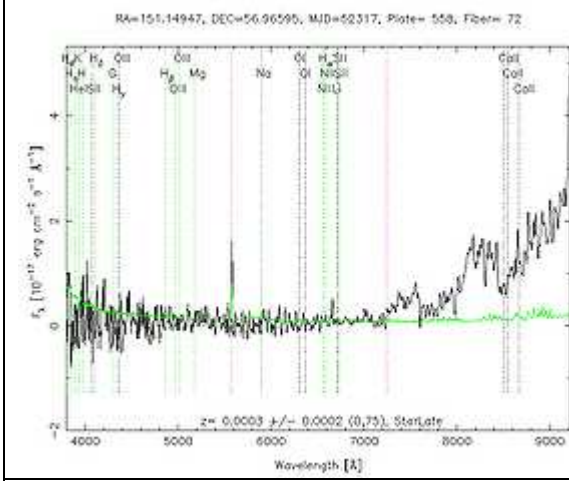
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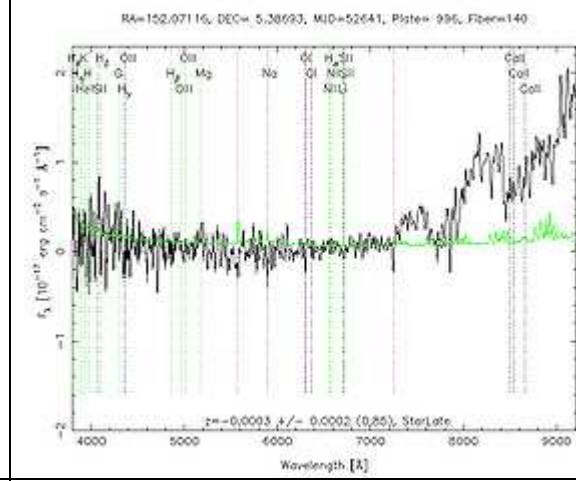
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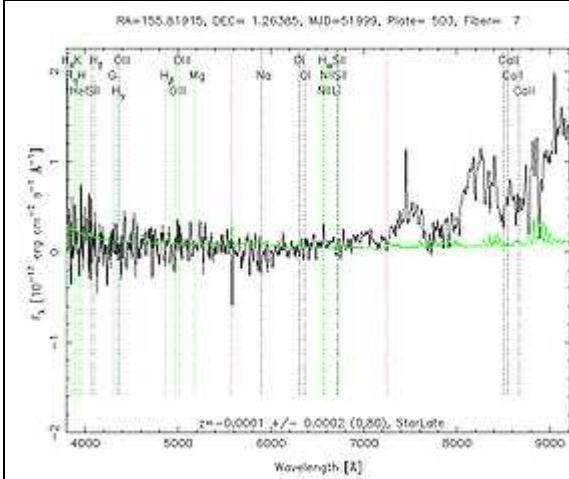
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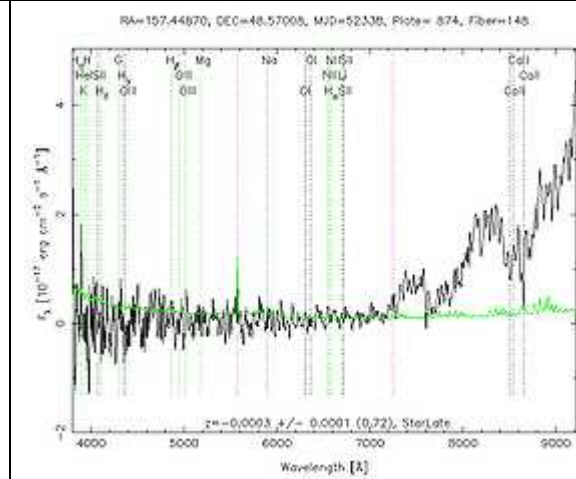
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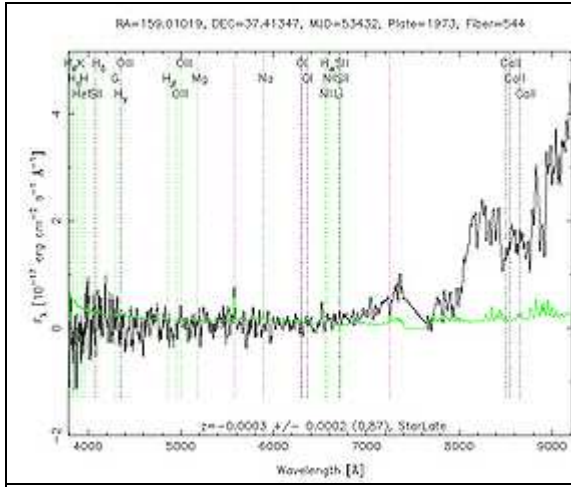
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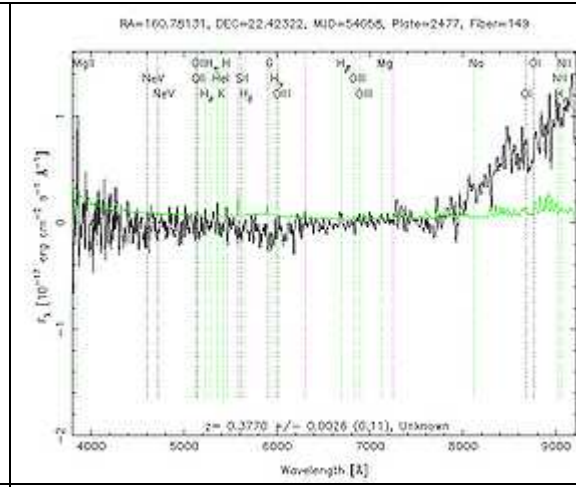
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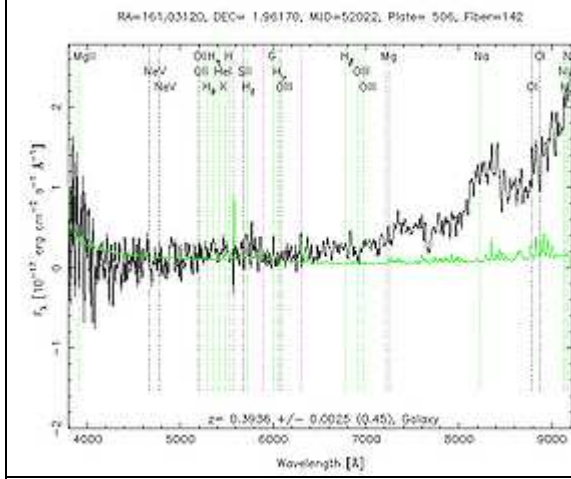
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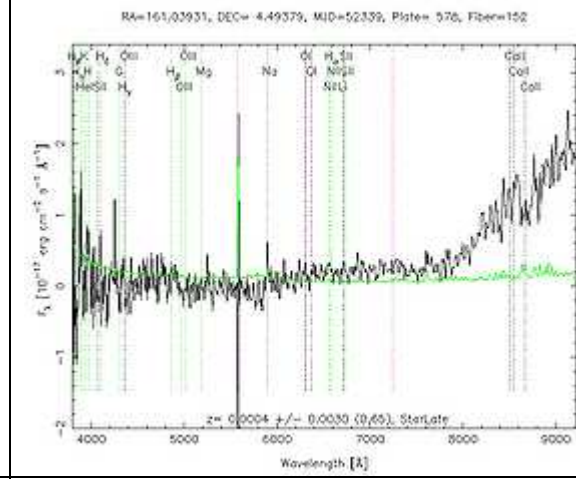
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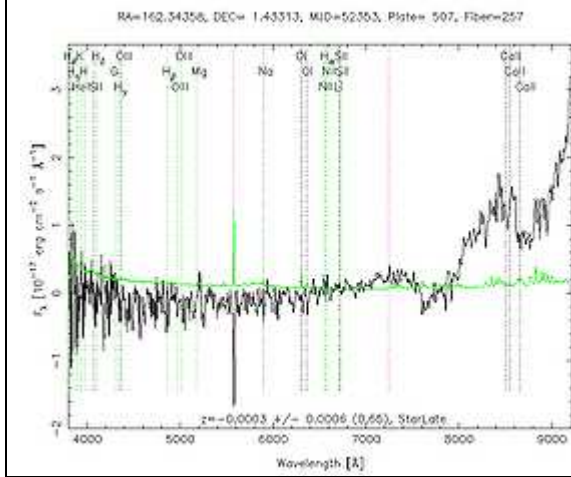
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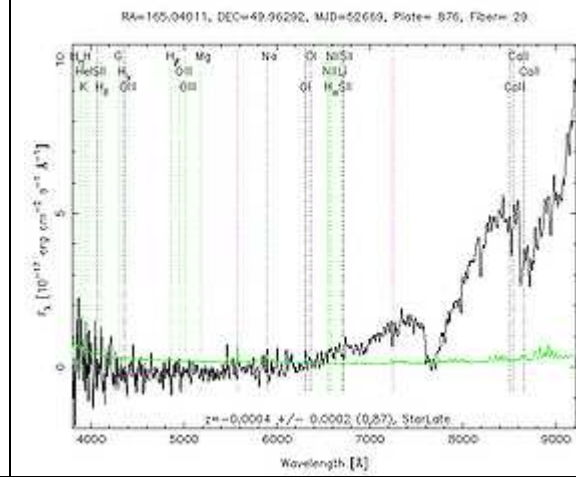
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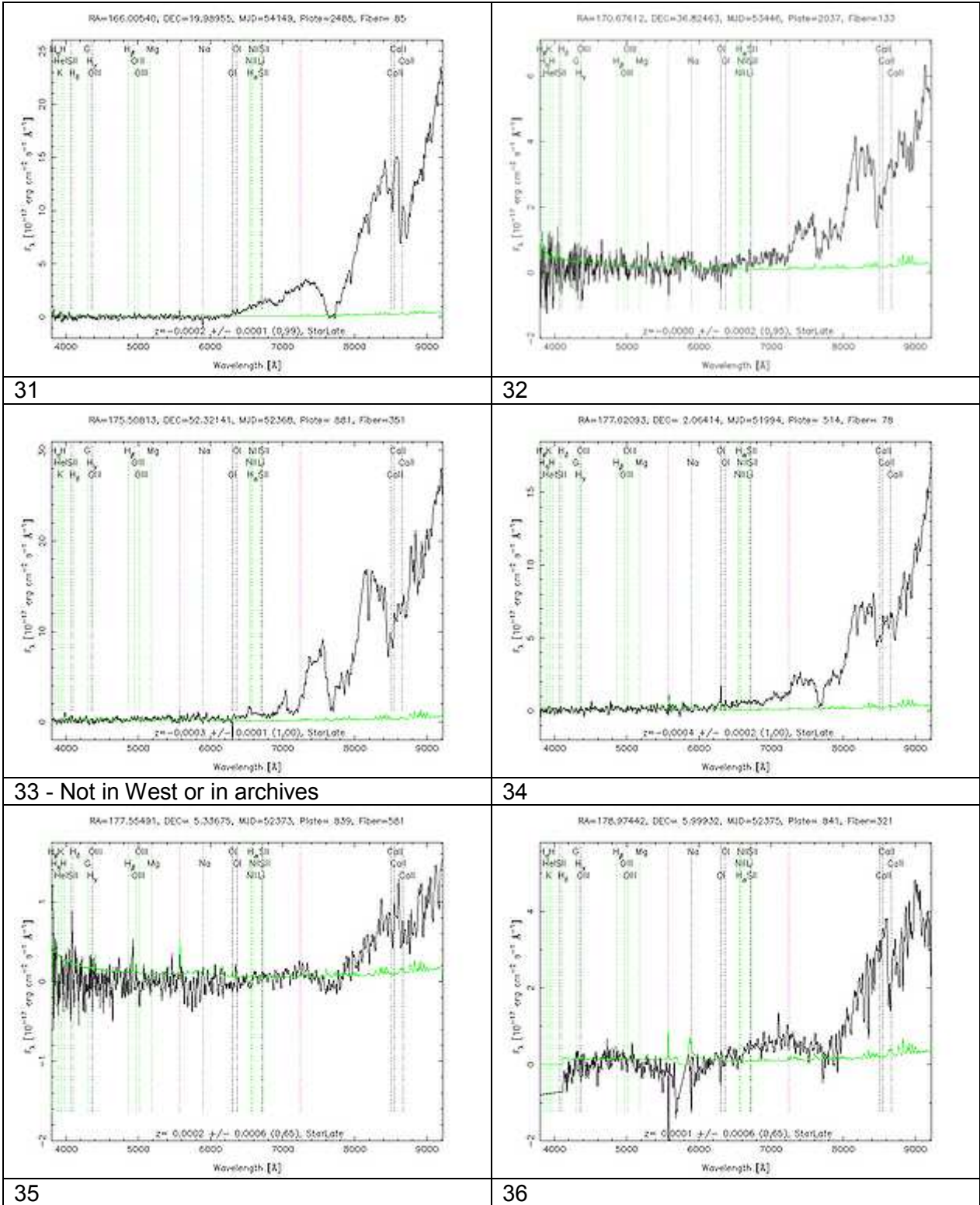
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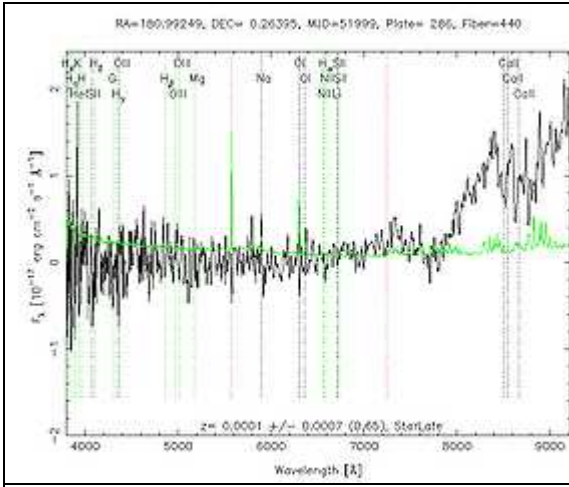


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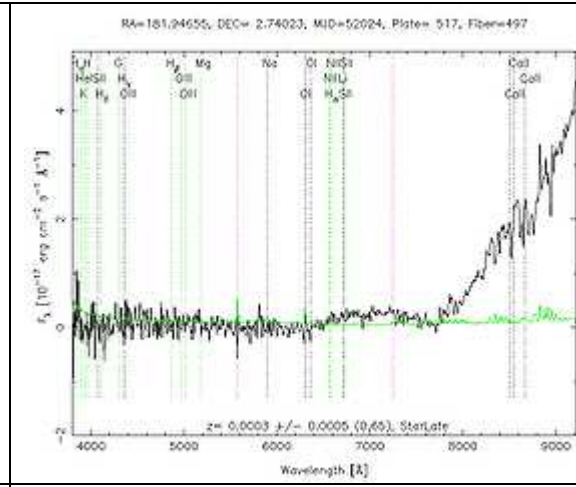


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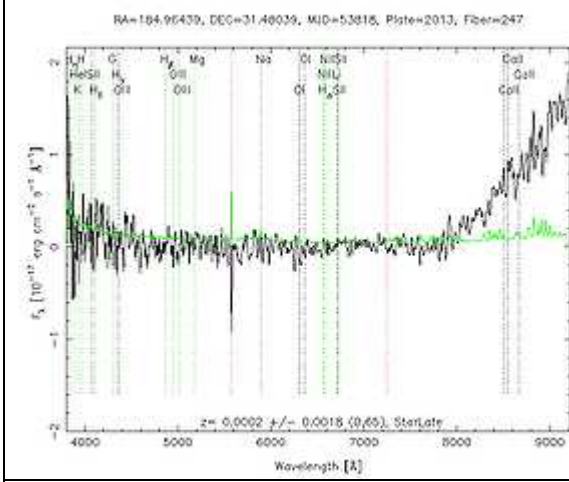




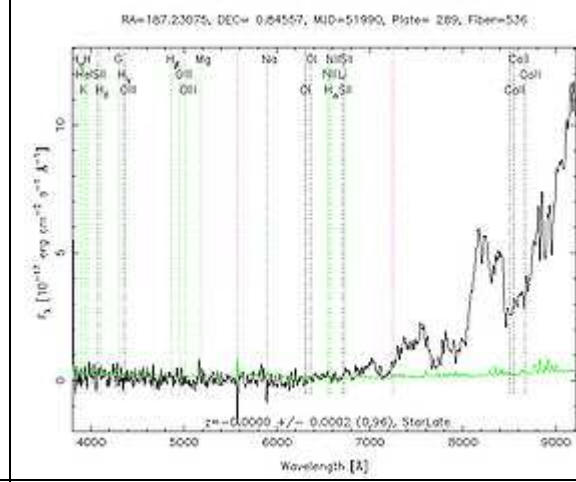
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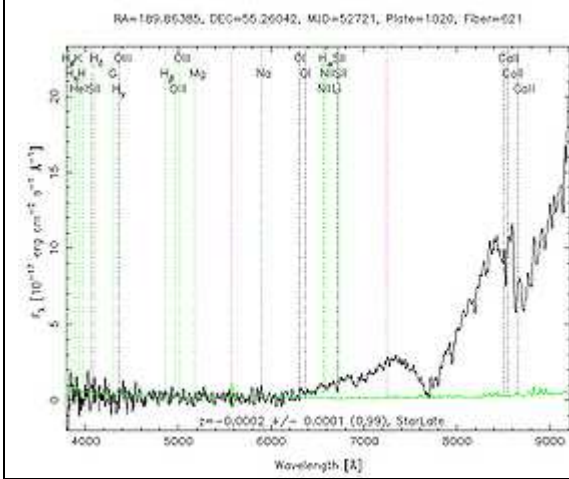
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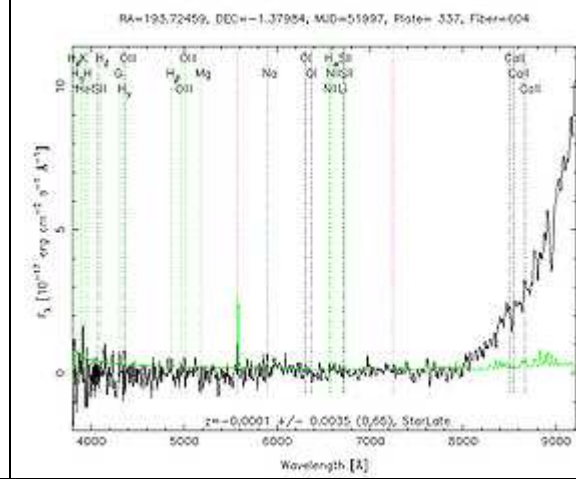
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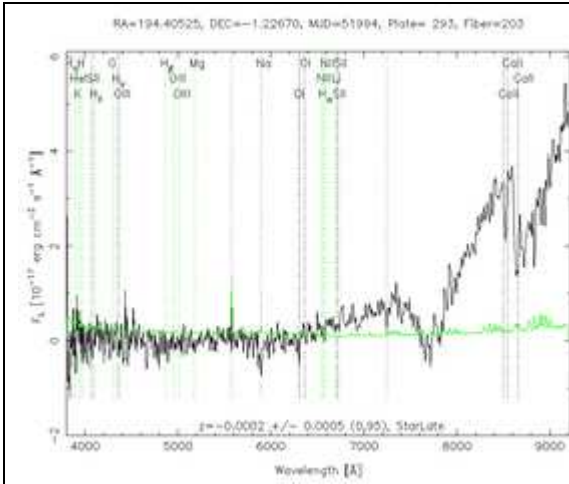
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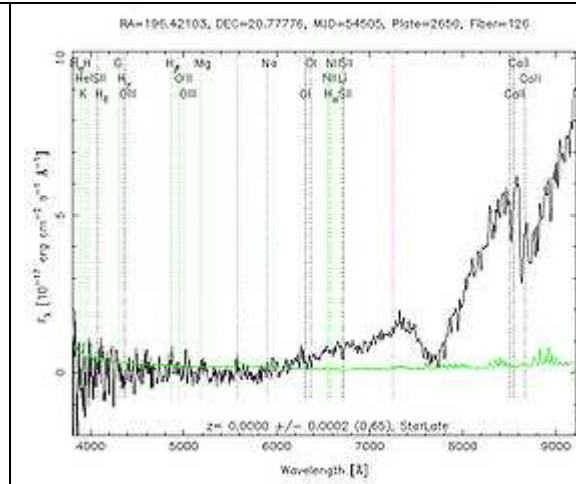
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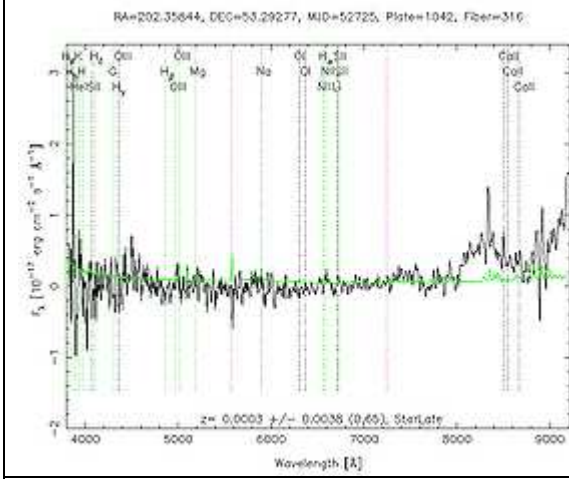
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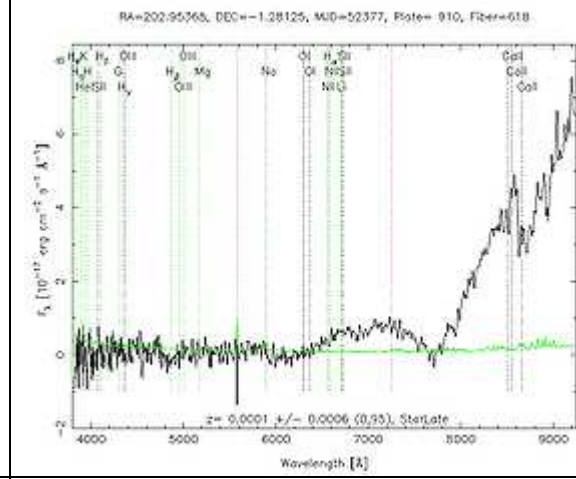
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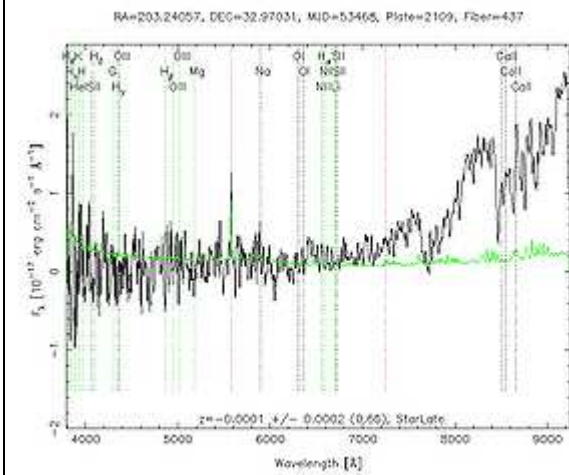
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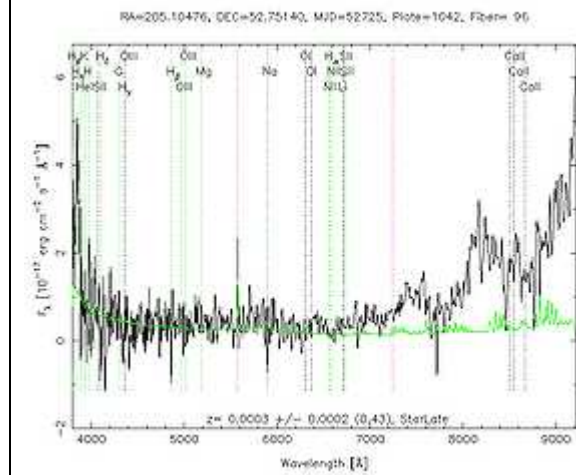
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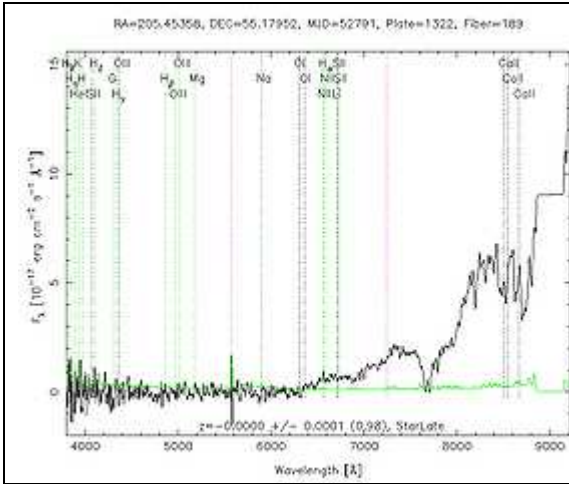
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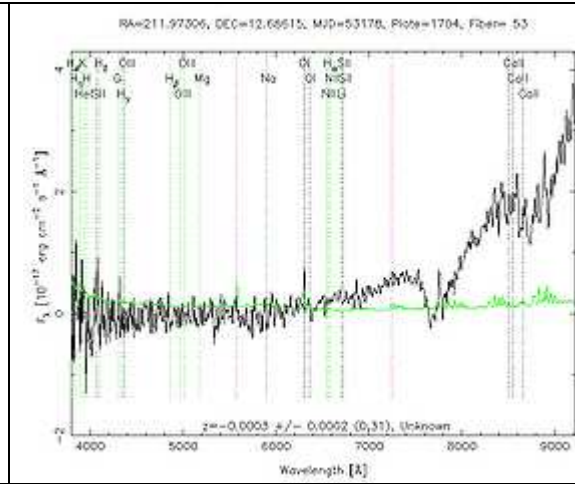
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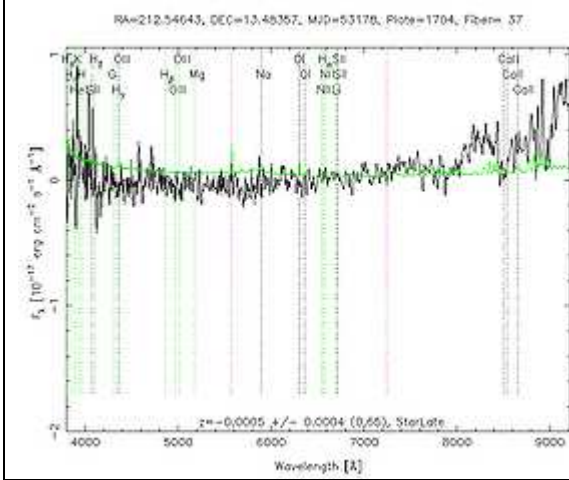
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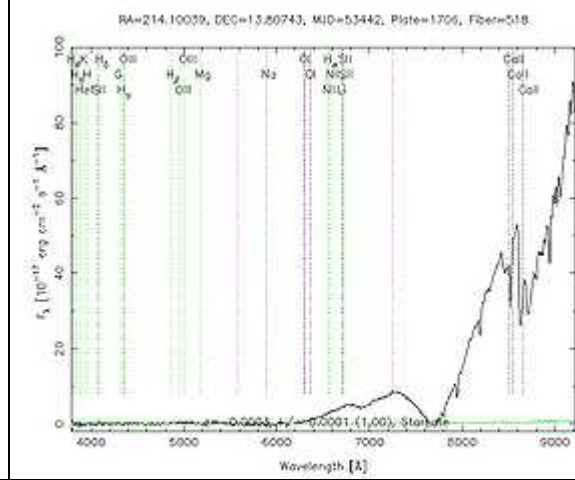
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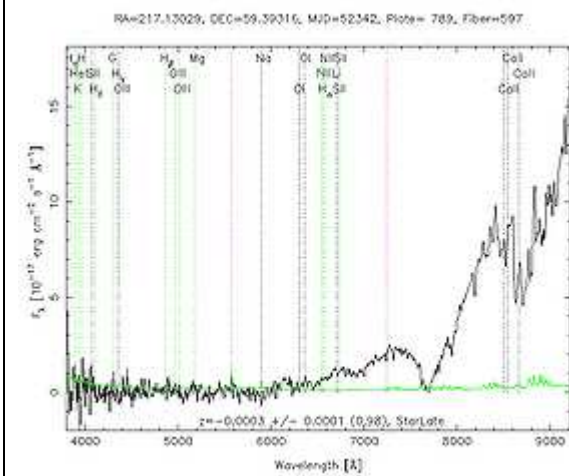
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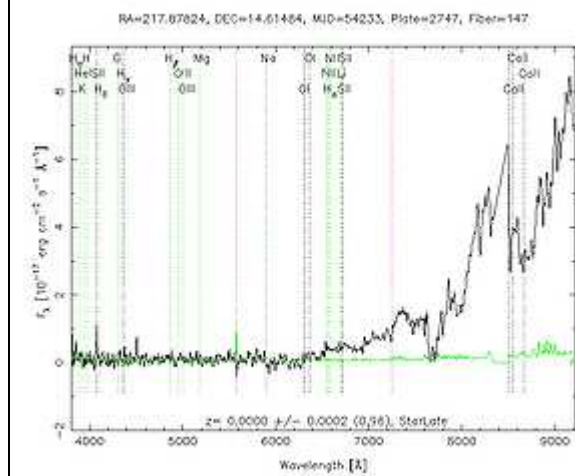
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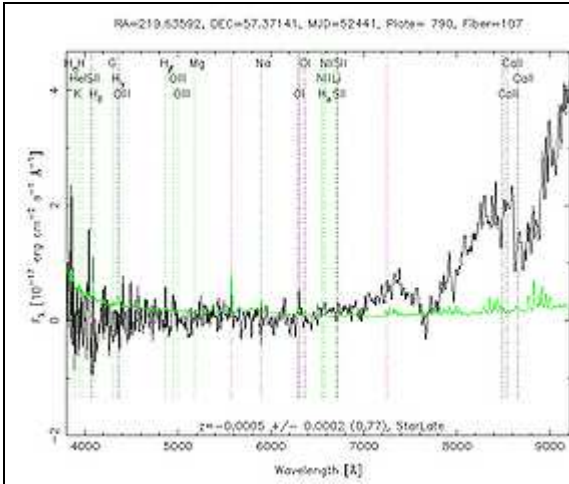
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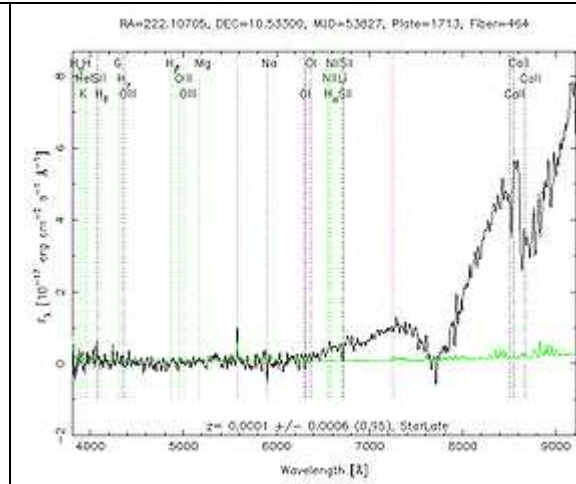
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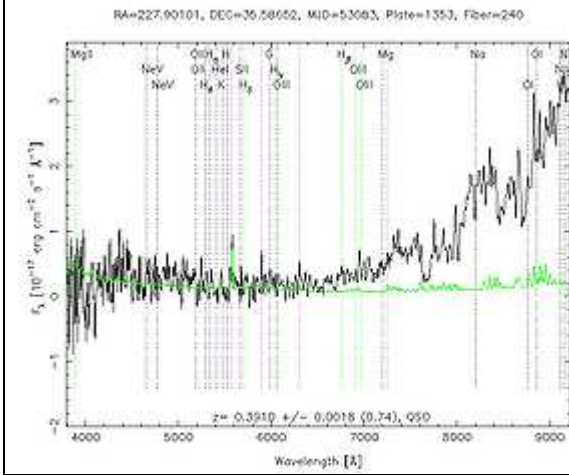
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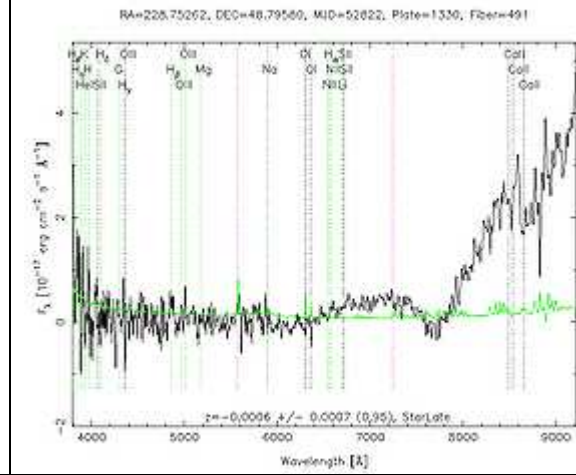
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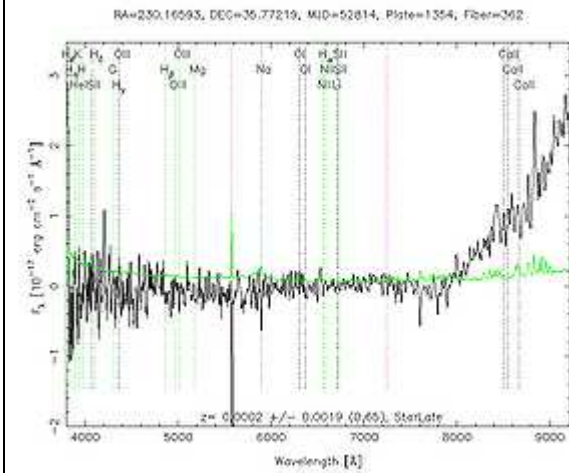
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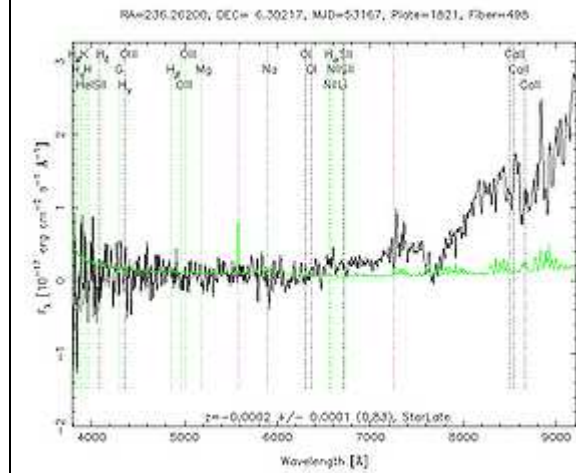
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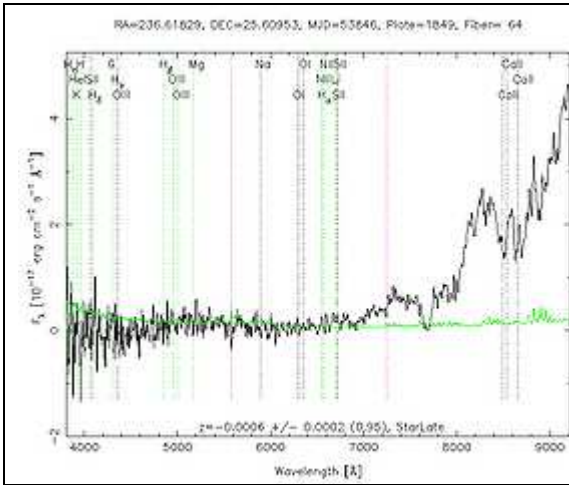
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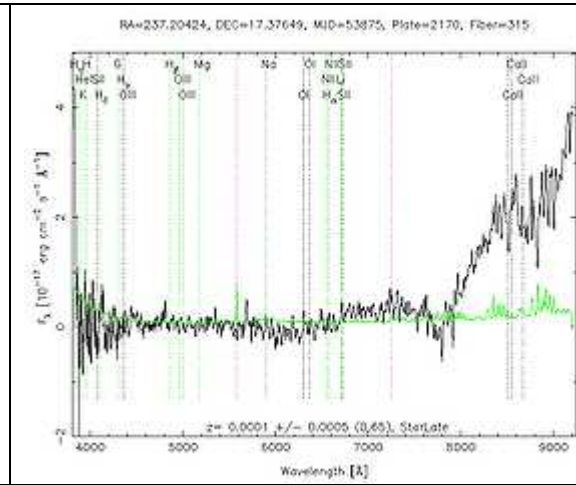
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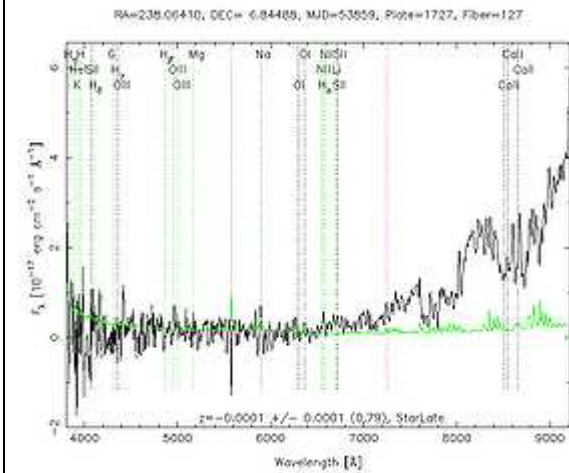
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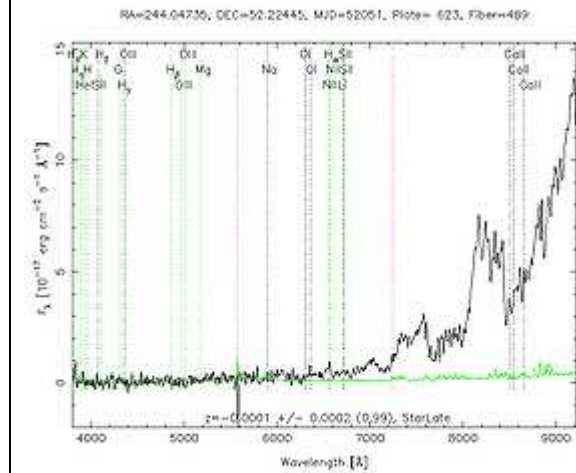
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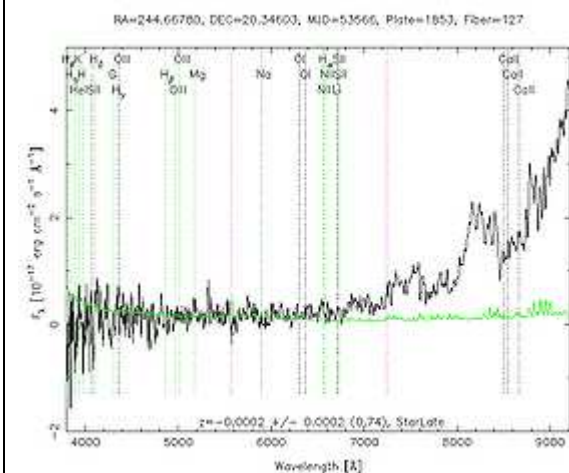
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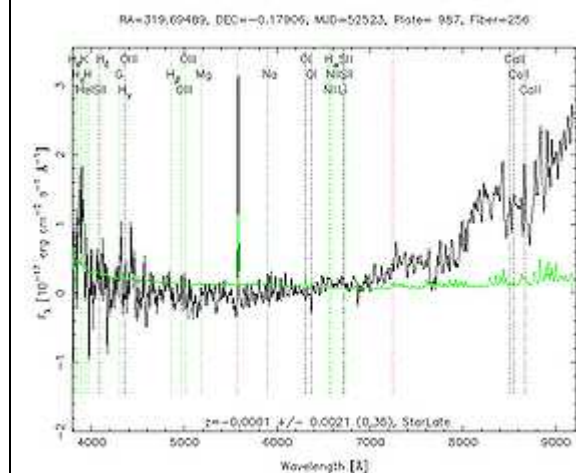
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65 - Not in West or in archives



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