

# Обзор ArXiv/astro-ph, 10-15 декабря 2021

От Сильченко О.К.

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## The TELPERION Survey for Distant [O III] Clouds around Luminous and Hibernating AGN

William C. Keel,<sup>1,2\*</sup> Alexei Moiseev,<sup>3,4</sup> D.V. Kozlova,<sup>3</sup> A.I. Ikhsanova,<sup>3,5</sup> D.V. Oparin,<sup>3</sup> R.I. Uklein,<sup>3</sup> A.A. Smirnova,<sup>3</sup> and M.V. Eselevich<sup>6</sup>

<sup>1</sup>*Dept. of Physics and Astronomy, University of Alabama, Box 870324, Tuscaloosa, AL 35487, USA*

<sup>2</sup>*SARA Observatory, Embry-Riddle Aeronautical University, Daytona Beach FL 32114, USA*

<sup>3</sup>*Special Astrophysical Observatory, Nizhny Arkhyz, Russia*

<sup>4</sup>*Lomonosov Moscow State University, Sternberg Astronomical Institute, Universitetsky pr. 13, Moscow 119234, Russia*

<sup>5</sup>*Kazan Federal University, Kremlevskaya str.18, 420008 Kazan, Russia*

<sup>6</sup>*Institute of Solar-Terrestrial Physics, Russian Academy of Sciences, Siberian Branch, Irkutsk, Russia*

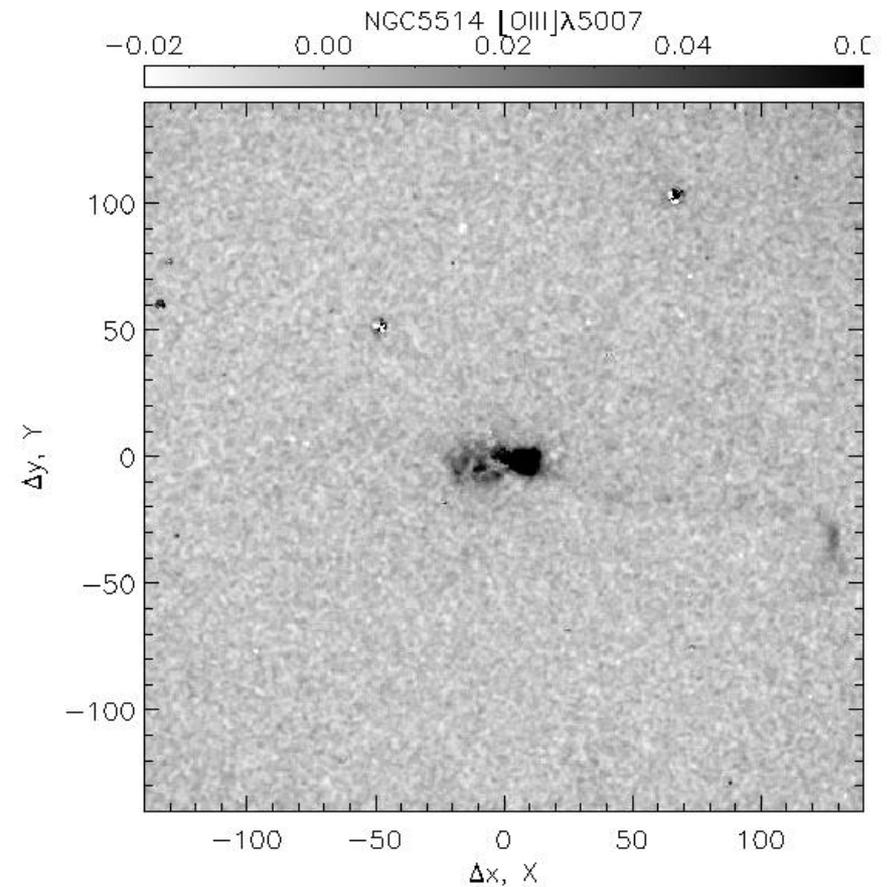
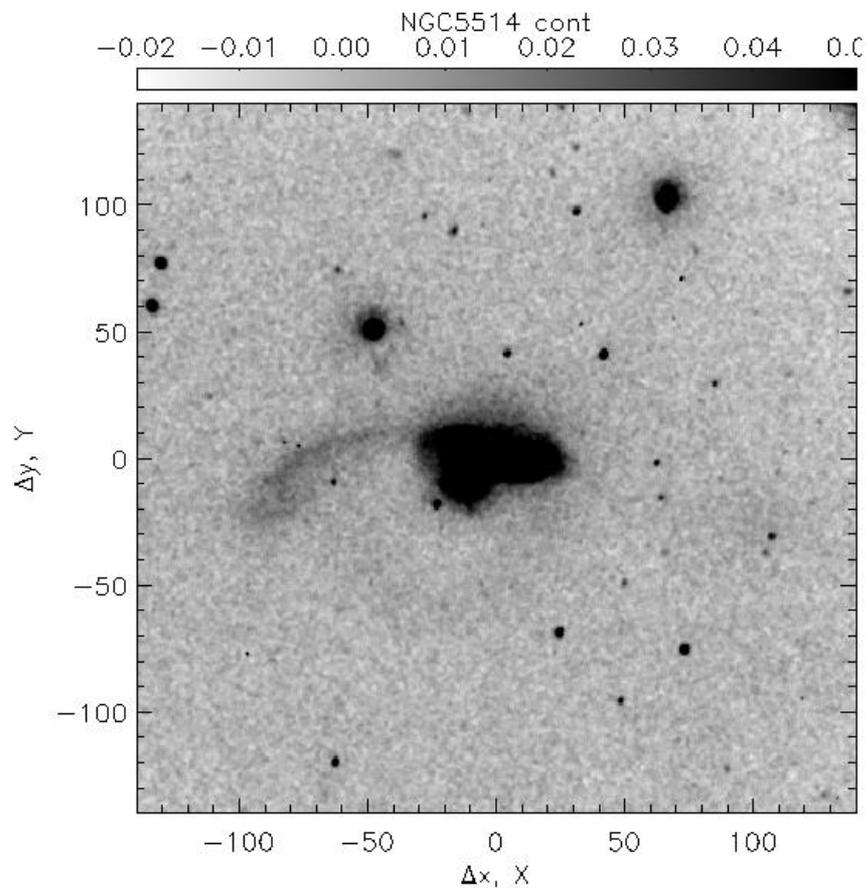
Accepted XXX. Received YYY; in original form ZZZ

### ABSTRACT

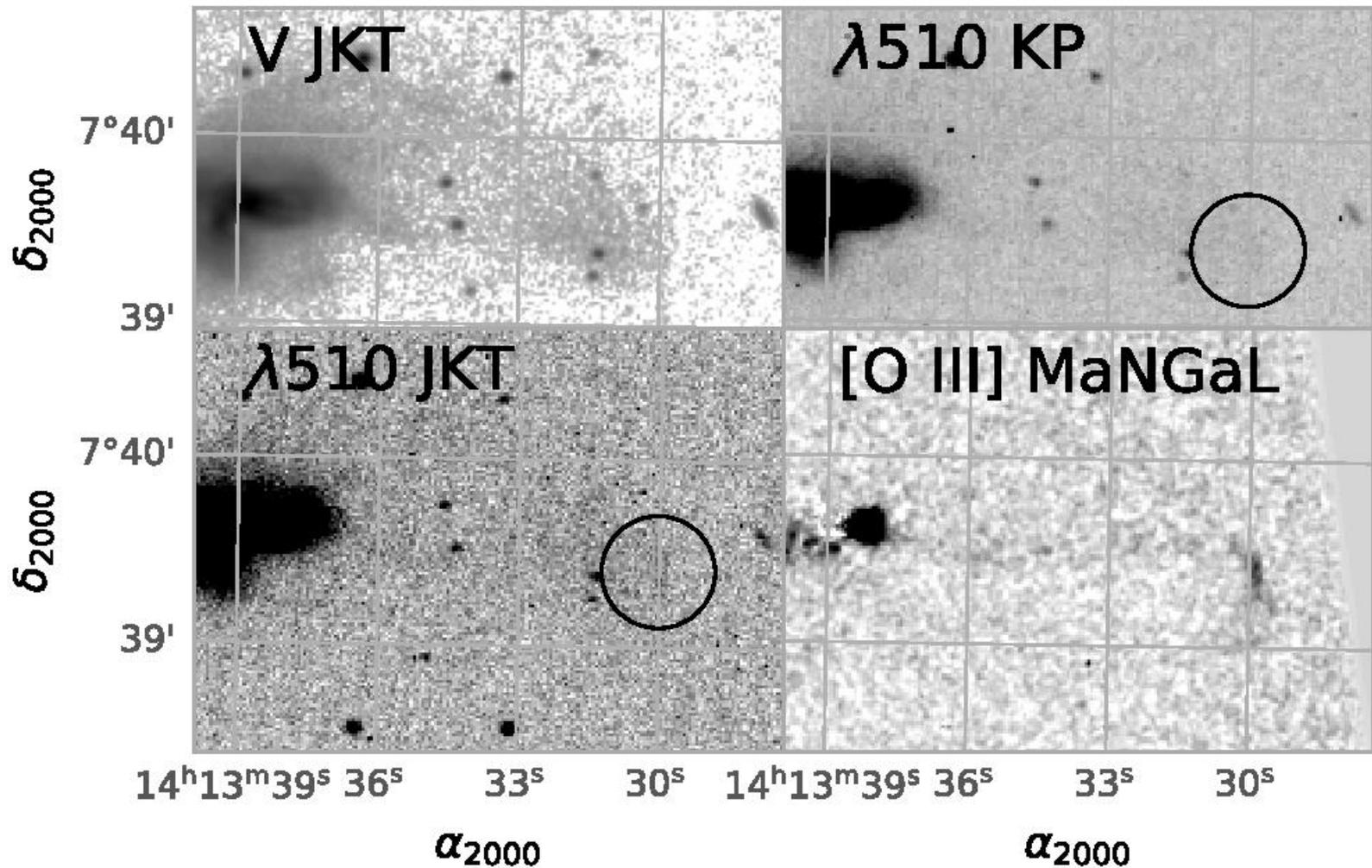
We present a narrowband [O III] imaging survey of 111 AGN hosts and 17 merging-galaxy systems, in search of distant extended emission-line regions (EELRs) around AGN (either extant or faded). Our data reach deeper than detection from the broadband SDSS data, and cover a wider field than some early emission-line surveys used to study extended structure around AGN. Spectroscopic followup confirms two new distant AGN-ionized clouds, in the merging systems NGC 235 and NGC 5514, projected at 26 and 75 kpc from the nuclei (respectively). We also recover the previously-known region in NGC 7252. These

<sup>2</sup> Nominally an acronym for Tracing Emission Lines to Probe Extended Regions Ionized by Once-active Nuclei, but more evocative for readers of Tolkien's work on the First Age of Middle Earth, where it gives a connotation of vanished brilliance.

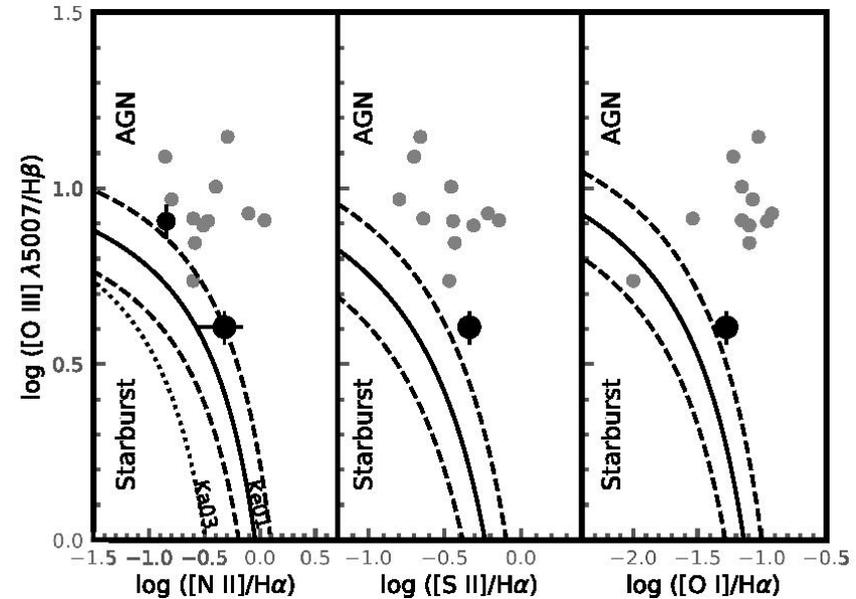
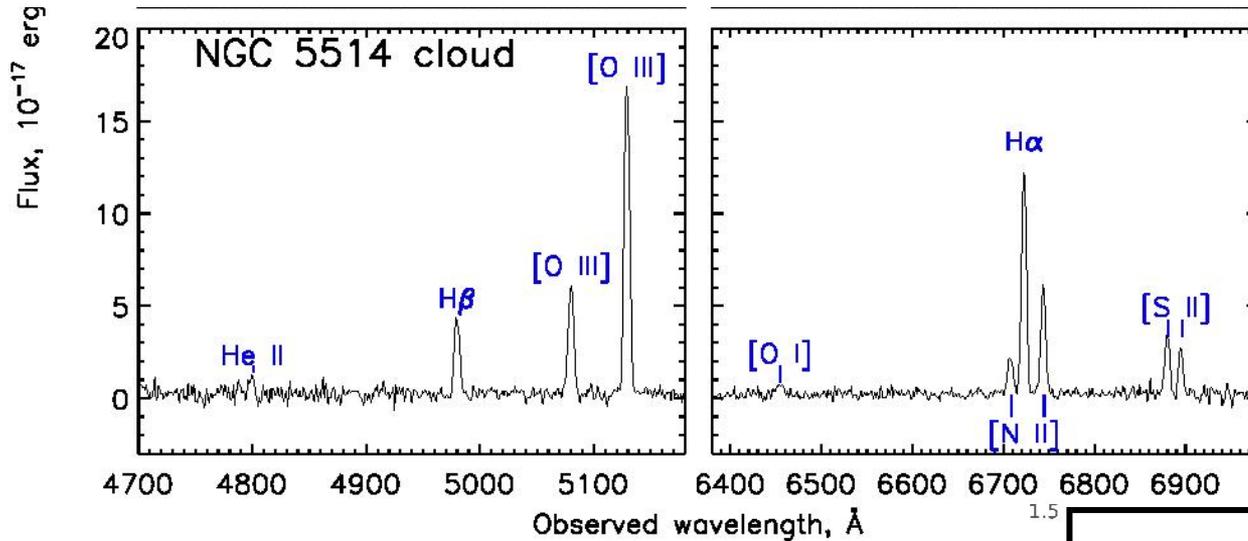
# NGC 5514: merger+MaNGaL



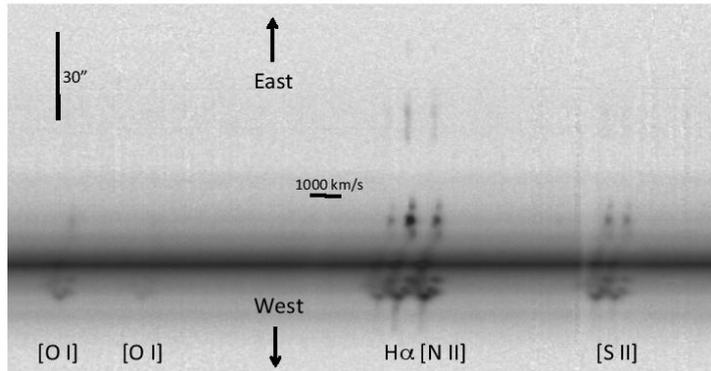
Keel снимал ее еще много где...



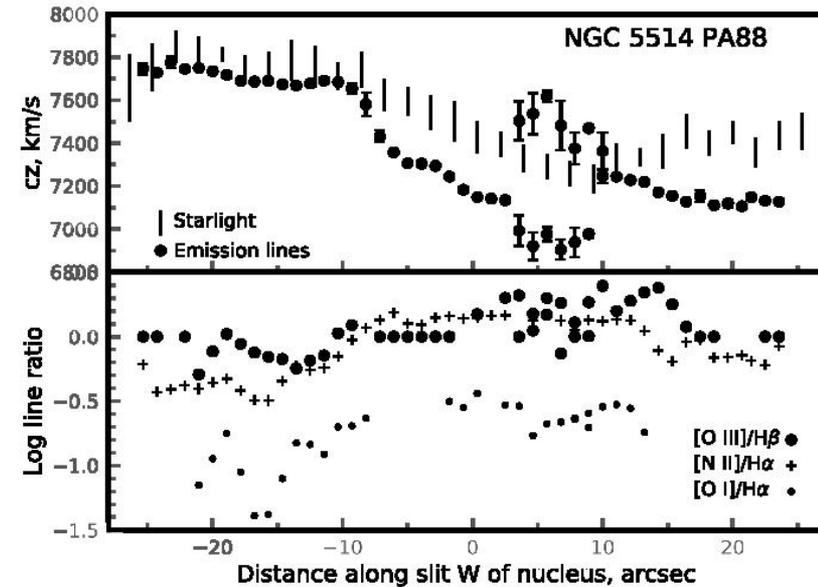
# У облака спектр активного ядра...



# А у самого ядра нет?



**Figure 8.** Long-slit spectrum of the central regions of NGC 5514, along position angle (PA) 88°. This section at red wavelengths shows the patchy elliptical traces of an expanding shell west of the nucleus. The velocity scale applies strictly at H $\alpha$ .



**LINER? Раздувающий оболочку?**