

PAPERSTACK



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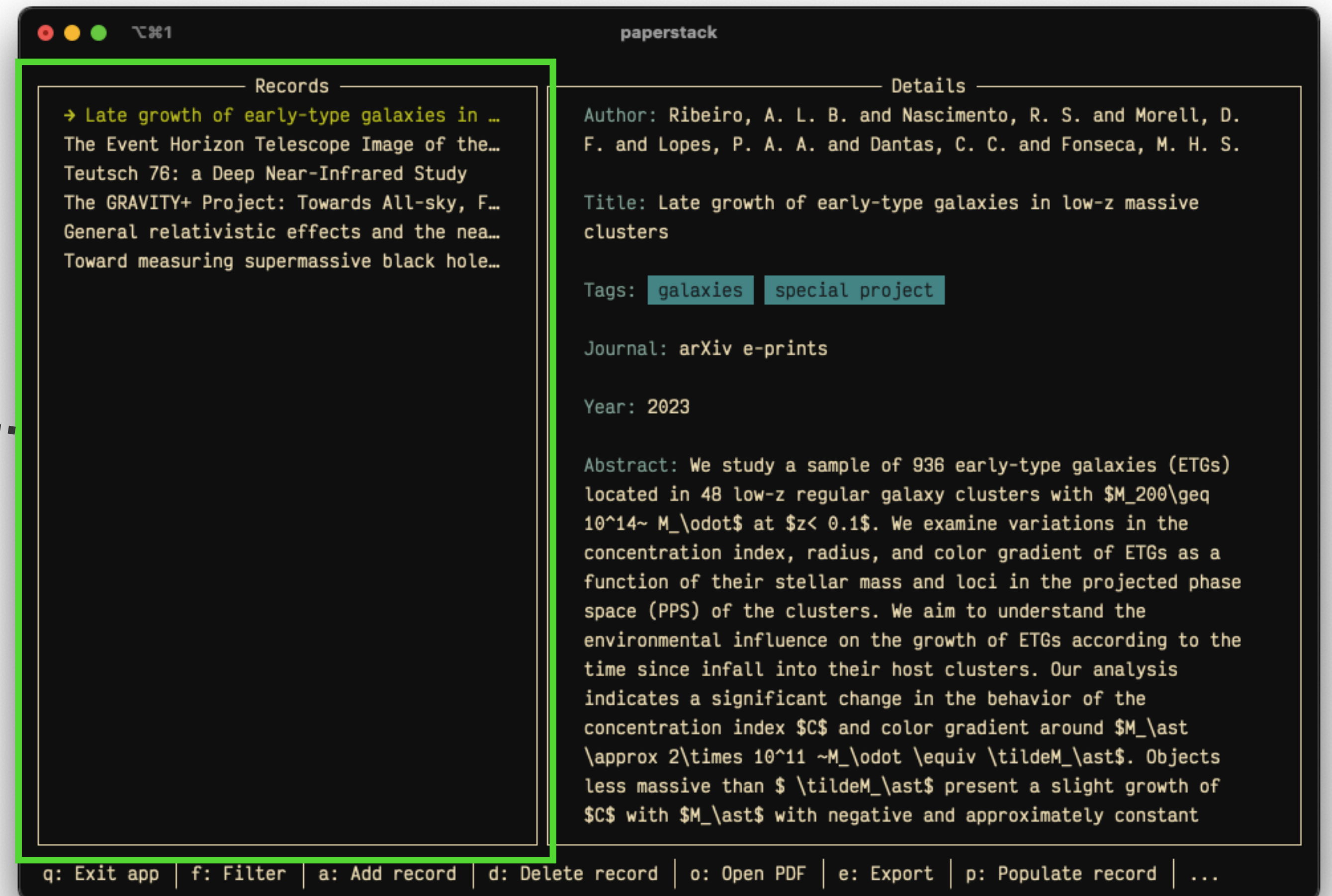
- Bibliography management tool
- Lightweight and portable
- Extensible and useful to extend
- Free and open source
- Transparent data
- Completely terminal-based

Why not Mendeley or Zotero?

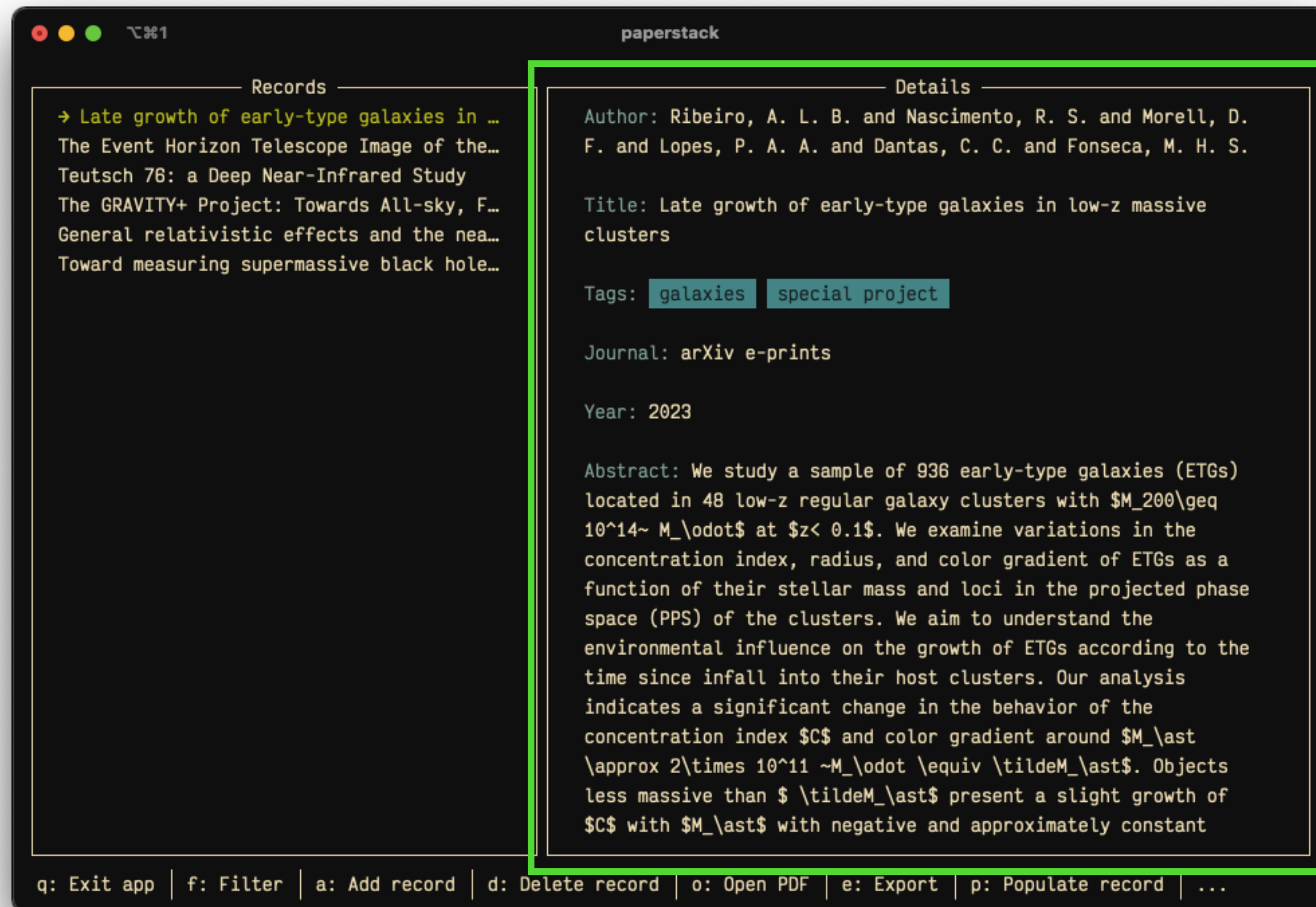
- Lightweight (146 KB, smaller than a typical JPEG)
 - Lets other services take care of what they do best
- Universal and portable
- Transparent data storage
- Integration open to virtually any extensible program
- Naturally suited for batch actions and scripting
- You can still use them in tandem with Paperstack!

Interface

Records: List of selectable article titles

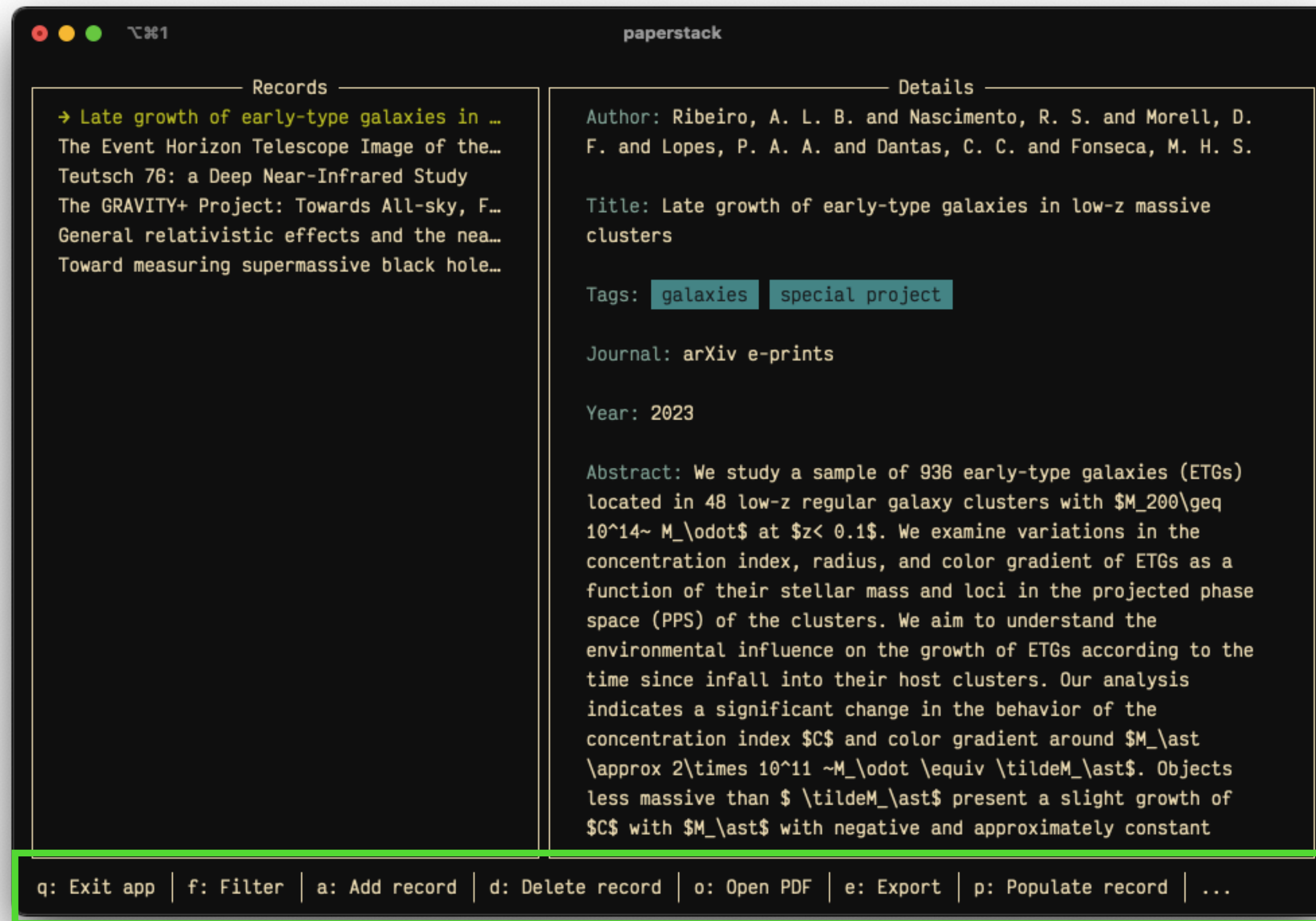


Interface



Details: Added information about the selected article

Interface



Footer: Key map hints, messages, and input

CLI

To explore the CLI commands, run:

```
$ paperstack --help
```

```
jetblack@JetBlack-2:~  
~ λ paperstack --help  
usage: paperstack [-h] [--config-path CONFIG_PATH] [--ansi] [--no-ansi]  
                {list,filter,get,open,add,remove,update,scrape,export} ...  
  
positional arguments:  
  {list,filter,get,open,add,remove,update,scrape,export}  
  list          List all library records.  
  filter        Filter and list library records.  
  get           Get a library record.  
  open          Open library record PDF if it exists.  
  add           Add a library record.  
  remove        Remove a library record.  
  update        Update a library record.  
  scrape        Scrape a database.  
  export        Export a library record.  
  
optional arguments:  
  -h, --help          show this help message and exit  
  --config-path CONFIG_PATH  
                      Path to Paperstack configuration.  
  --ansi              Use ANSI colors in the output.  
  --no-ansi           Do not use ANSI colors in the output.  
~ λ █
```

CLI

\$ paperstack list

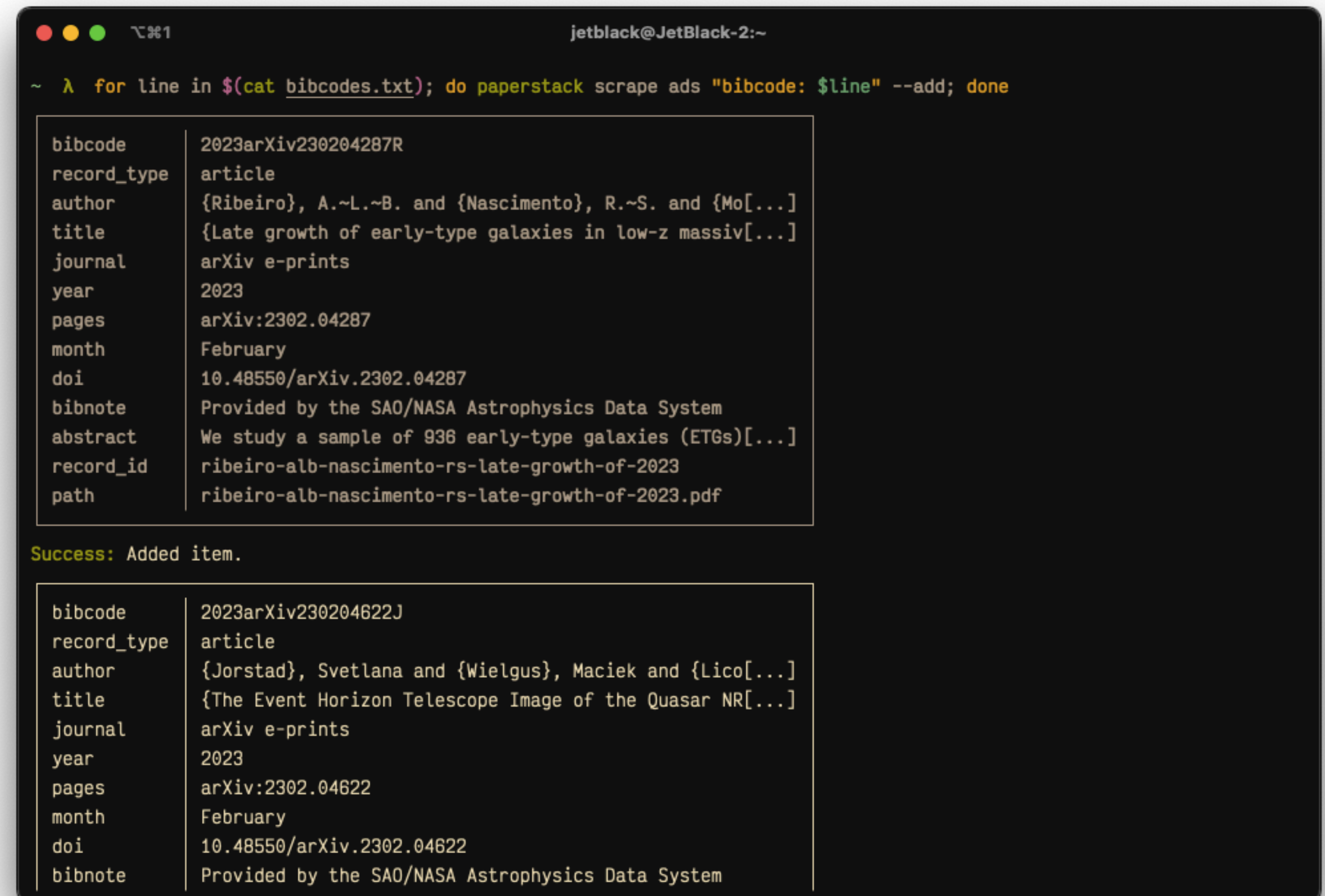
```
jetblack@JetBlack-2:~  
~ λ paperstack list
```

record_id	ribeiro-alb-nascimento-rs-late-growth-of-2023
record_type	article
author	{Ribeiro}, A.~L.~B. and {Nascimento}, R.~S. and {Mo[...]}
title	{Late growth of early-type galaxies in low-z massiv[...]}
journal	arXiv e-prints
abstract	We study a sample of 936 early-type galaxies (ETGs)[...]
year	2023
pages	arXiv:2302.04287
month	February
bibnote	Provided by the SAO/NASA Astrophysics Data System
bibcode	2023arXiv230204287R
path	ribeiro-alb-nascimento-rs-late-growth-of-2023.pdf
tags	;galaxies;;special project;

record_id	jorstad-svetlana-wielgus-maciek-the-event-hori-2023
record_type	article
author	{Jorstad}, Svetlana and {Wielgus}, Maciek and {Lico[...]}
title	{The Event Horizon Telescope Image of the Quasar NR[...]}
journal	arXiv e-prints
abstract	We report on the observations of the quasar NRAO 53[...]
year	2023
pages	arXiv:2302.04622
month	February
bibnote	Provided by the SAO/NASA Astrophysics Data System
bibcode	2023arXiv230204622J

CLI

```
for line in $(cat bibcodes.txt); do
    paperstack scrape ads "bibcode: $line" --add
done
```



```
jetblack@JetBlack-2:~  
~ λ for line in $(cat bibcodes.txt); do paperstack scrape ads "bibcode: $line" --add; done
```







bibcode	2023arXiv230204287R
record_type	article
author	{Ribeiro}, A.~L.~B. and {Nascimento}, R.~S. and {Mo[...]
title	{Late growth of early-type galaxies in low-z massiv[...]
journal	arXiv e-prints
year	2023
pages	arXiv:2302.04287
month	February
doi	10.48550/arXiv.2302.04287
bibnote	Provided by the SAO/NASA Astrophysics Data System
abstract	We study a sample of 936 early-type galaxies (ETGs)[...]
record_id	ribeiro-alb-nascimento-rs-late-growth-of-2023
path	ribeiro-alb-nascimento-rs-late-growth-of-2023.pdf

Success: Added item.

bibcode	2023arXiv230204622J
record_type	article
author	{Jorstad}, Svetlana and {Wielgus}, Maciek and {Lico[...]
title	{The Event Horizon Telescope Image of the Quasar NR[...]
journal	arXiv e-prints
year	2023
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bibnote	Provided by the SAO/NASA Astrophysics Data System

The Dust Sublimation Region of the Type 1 AGN NGC 4151 at a Hundred Microarcsecond Scale as Resolved by the CHARA Array Interferometer

Show affiliations

Kishimoto, Makoto  ; Anderson, Matthew ; ten Brummelaar, Theo ; Farrington, Christopher  ; Antonucci, Robert ; Hönl, Sebastian  ; Millour, Florentin ; Tristram, Konrad R. W.  ; Weigelt, Gerd  ; Sturm, Laszlo ; Sturm, Judit ; Schaefer, Gail  ; Scott, Nic

The nuclear region of Type 1 active galactic nuclei (AGNs) has only been partially resolved so far in the near-infrared (IR), where we expect to see the dust sublimation region and the nucleus directly without obscuration. Here, we present the near-IR interferometric observation of the brightest Type 1 AGN NGC 4151 at long baselines of ~ 250 m using the CHARA Array, reaching structures at hundred microarcsecond scales. The squared visibilities decrease down to as low as ~ 0.25 , definitely showing that the structure is resolved. Furthermore, combining with the previous visibility measurements at shorter baselines but at different position angles, we show that the structure is elongated perpendicular to the polar axis of the nucleus, as defined by optical polarization and a linear radio jet. A thin-ring fit gives a minor/major axis ratio of ~ 0.7 at a radius ~ 0.5 mas (~ 0.03 pc). This is consistent with the case where the sublimating dust grains are distributed preferentially in the equatorial plane in a ring-like geometry, viewed at an inclination angle of $\sim 40^\circ$. The recent mid-IR interferometric finding of polar-elongated geometry at a pc scale, together with a larger-scale polar outflow as spectrally resolved by the Hubble Space Telescope, would generally suggest a dusty, conical and hollow outflow being launched, presumably in the dust sublimation region. This might potentially lead to a polar-elongated morphology in the near-IR, as opposed to the results here. We discuss a possible scenario where an episodic, one-off anisotropic acceleration formed a polar-fast and equatorially slow velocity distribution, having led to an effectively flaring geometry as we observe.

Publication: The Astrophysical Journal, Volume 940, Issue 1, id.28, 15 pp.

Behind the Scenes

- Written in Python, using Urwid for interfacing
 - Escape codes and unicode (widespread support)
- SQLite database with exposed PDFs in the same directory
- Emphasis on modularity (record types and databases)
- BibTeX, XML, and PDF parsing; will use BeautifulSoup
- BibTeX for communication
- Will use JSON for extension support

Installation

- Available on PyPI
 - `pip install paperstack`
 - `python3 -m pip install paperstack`
- Download and build from source
 - <https://github.com/williamroque/Paperstack>
 - `python3 setup.py install`

Contributing

- All contributions welcome
- Feedback
 - GitHub Issues and Pull Requests are preferred
 - Email/Discord equally appreciated
- Areas of development
 - Improve docs
 - New databases/record types
 - New export formats (particularly MLA, APA, etc.)
 - Platform support

Pitfalls

- Windows support
- Technical overhead
- Terminal vs. GUI

Request

```
< Install, use, and give feedback!! >
```



```
~ λ █
```