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## The Busy Man's ArXiv

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Spoon, Henrik, "The Busy Man's ArXiv" (2017). *Upstate New York Science Librarians Conference*. 83.  
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# The Busy Man's arXiv

Henrik Spoon

Cornell University Library

# Introduction

The logo for arXiv.org, consisting of the text "arXiv.org" in white lowercase letters on a solid red rectangular background.

Repository of electronic preprints (e-prints)

Serving the physics, astronomy, math, computer science, and statistics communities

Volume grown so much that there is too much for a researcher to peruse on a daily (weekly) basis → need for filtering



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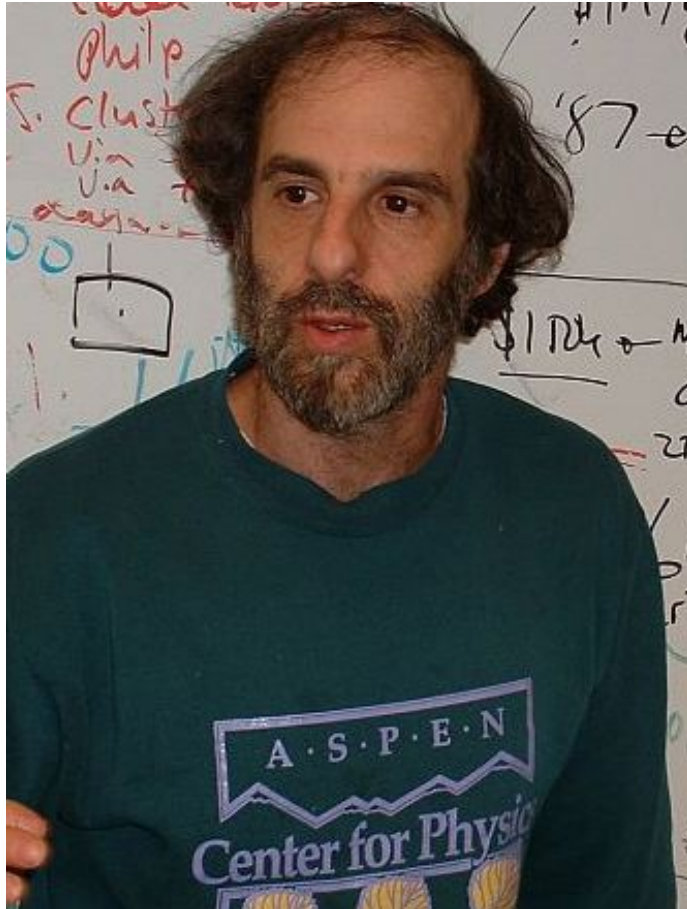
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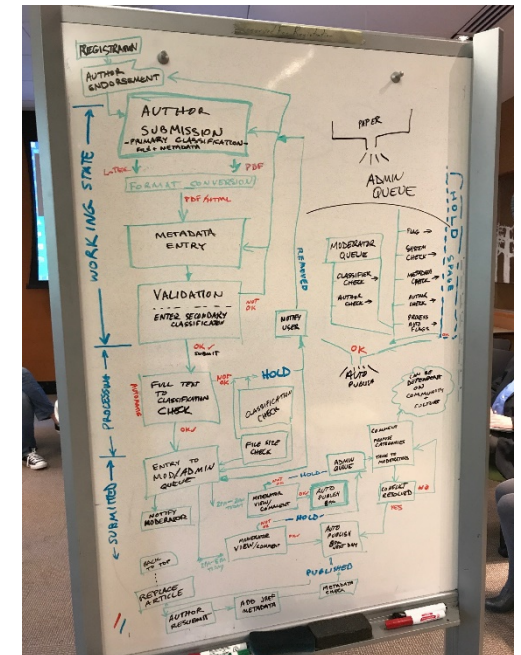
The **xxx.lanl.gov** server,  
or, as Paul Ginsparg calls  
it: the **desk-bottom  
publishing machine**





# How it works...

1. Author submits a PDF or LaTeX document to arXiv.org
2. Submission is processed and checked for:
  1. Affiliation
  2. Proper choice of category
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3. Submission is released into arXiv
4. List of new submissions is mailed out every workday





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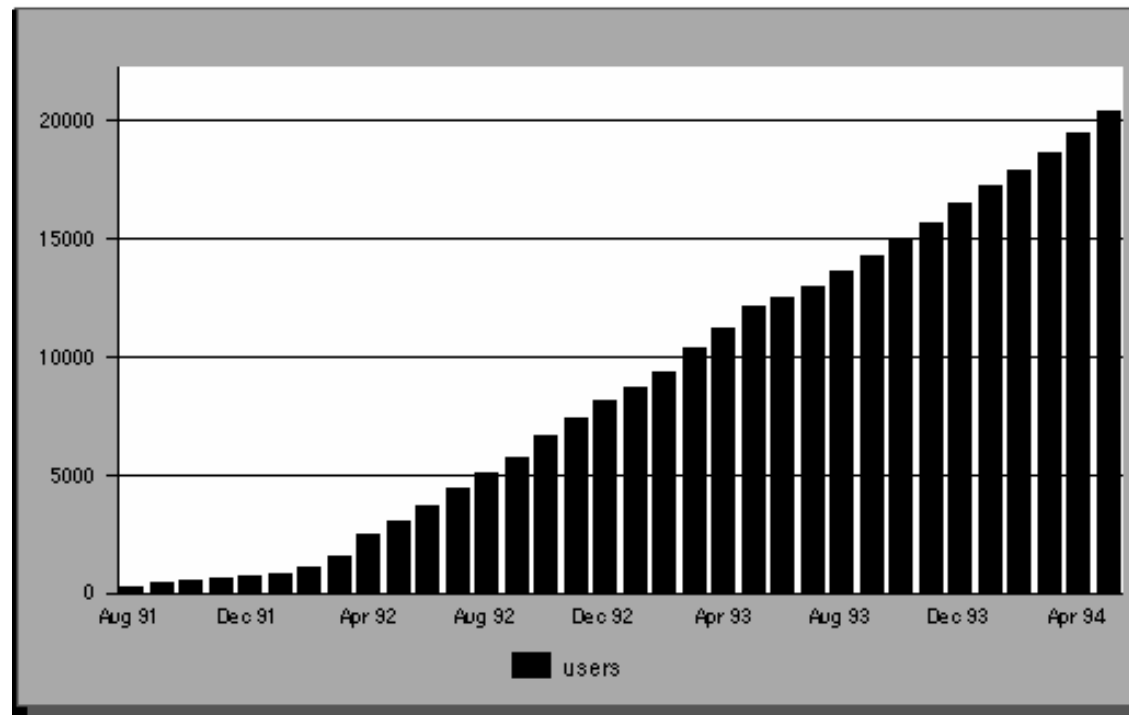
- (Astro)physics
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- Electrical Engineering and Systems Science



## Early user statistics: 1991-1994



20,000 users/month  
by April 1994



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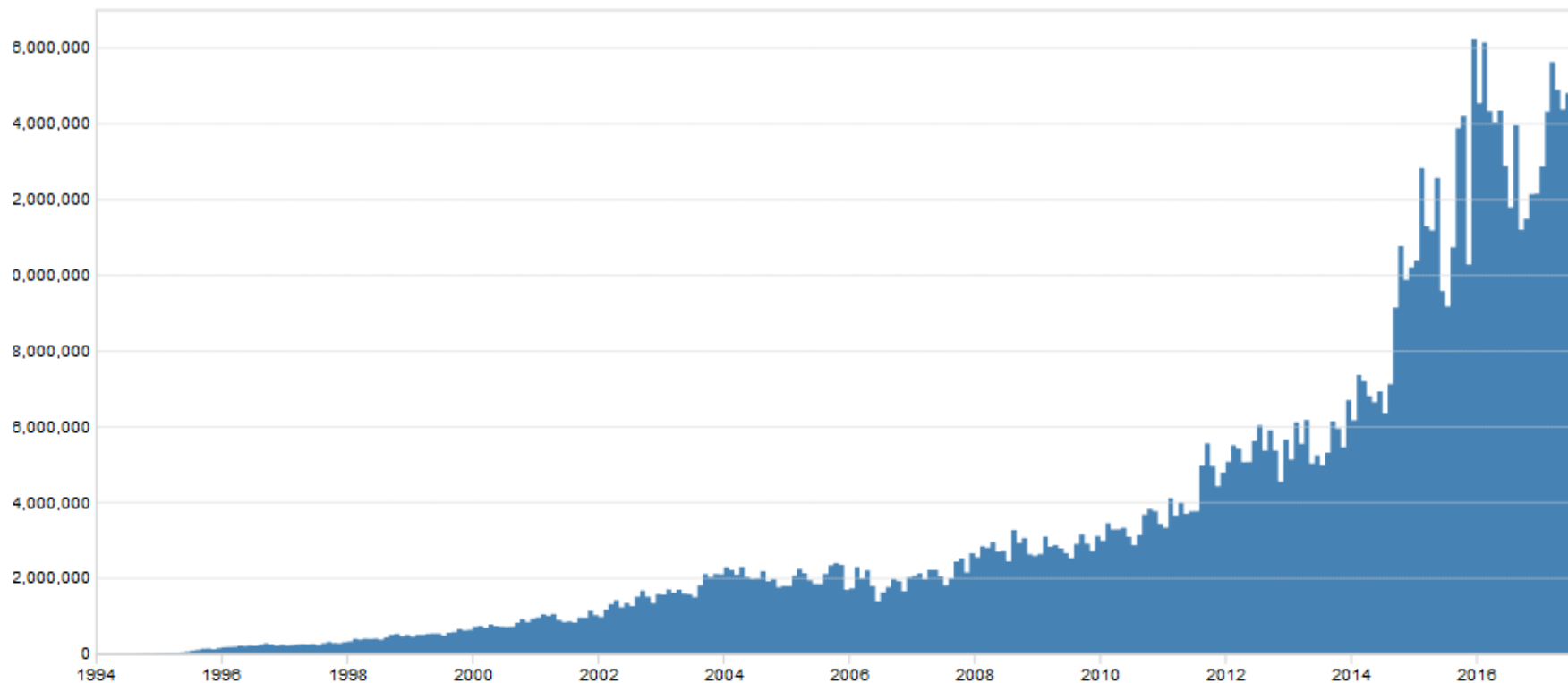
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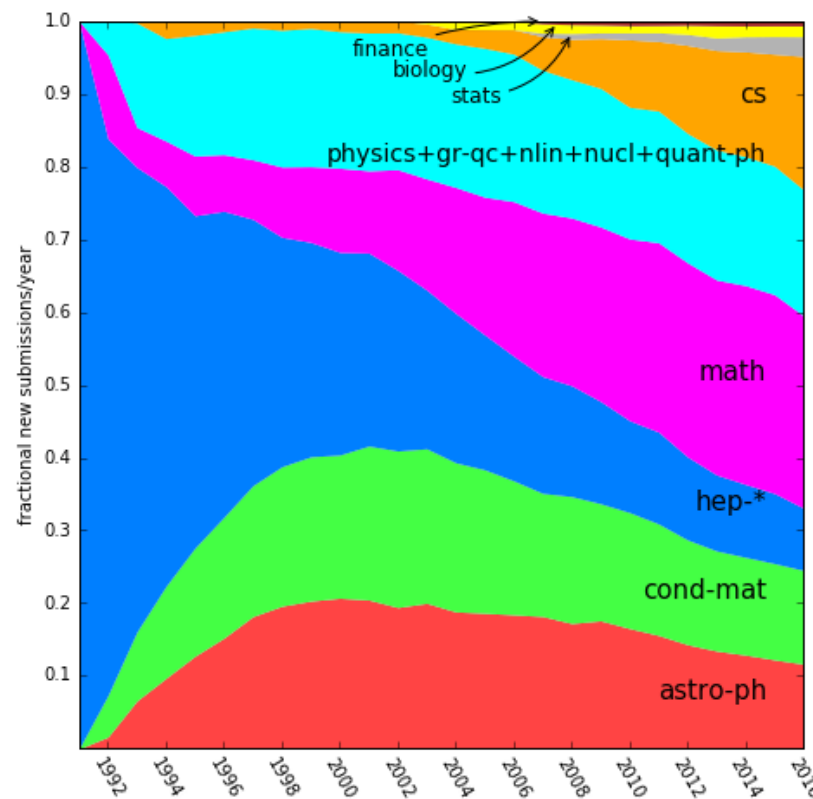
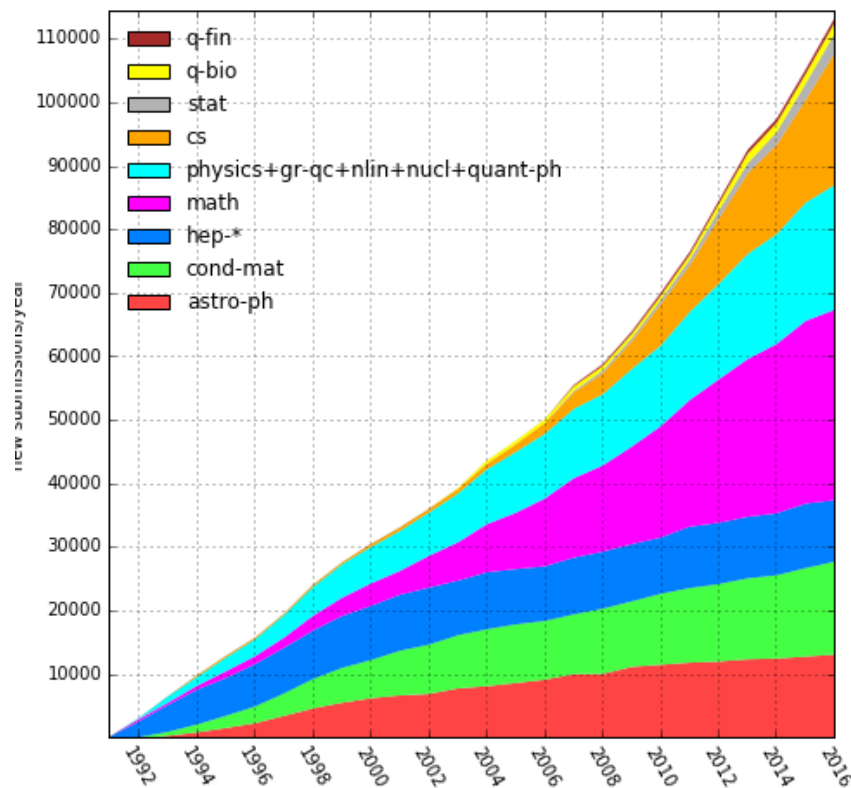
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## Submission history for arXiv 1992-2016: early and late adopters



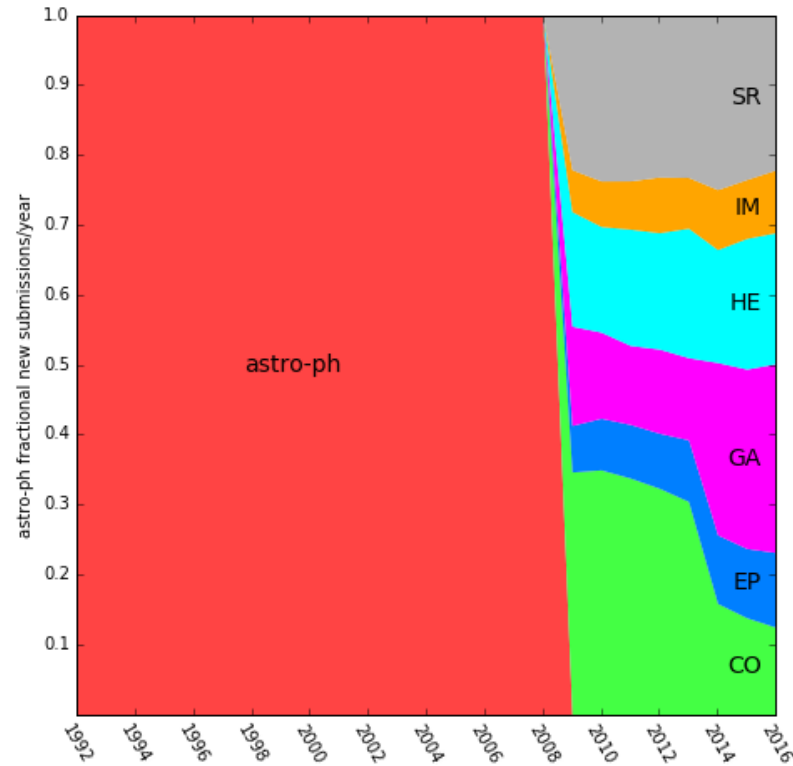
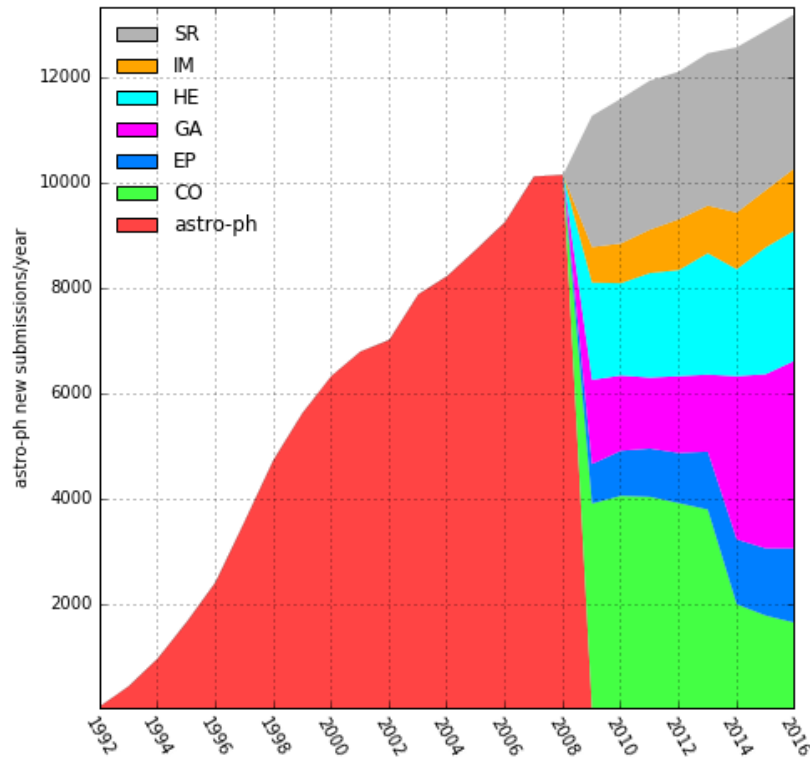
2016:

113,380 submissions  
to arXiv

= ~470 / workday !



## ASTRO-PH: subcategories introduced in 2009: allows to shorten the daily new-submission reading list



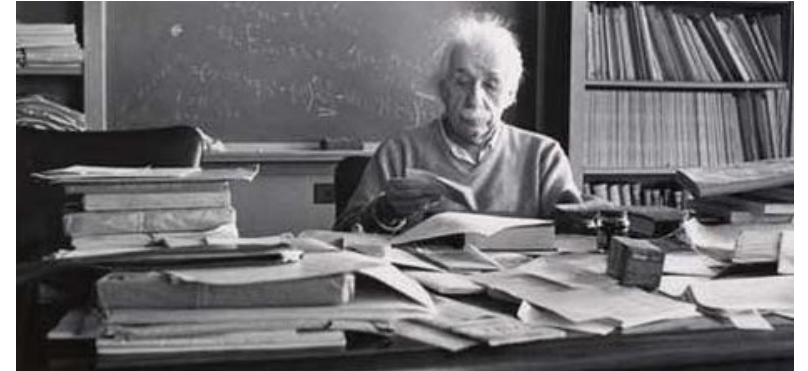
2016:

13,214 submissions  
for ASTRO-PH

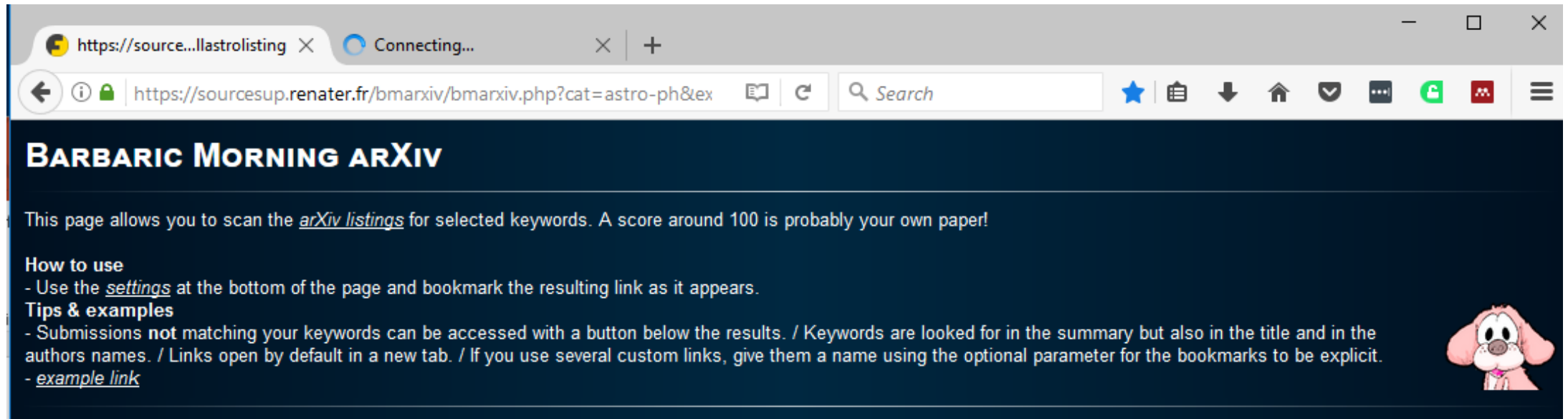
= 55 / workday !

# A daily chore for graduate students and post-docs: stay on top of new publications in the field

- Who is scooping me?
  - What new research or data will help me to advance my project?
  - Who should I cite to appear “in the know”?
- **scan arXiv new submission mailings** (sorry: not for chemistry and engineering)
- Problem: 55 new preprints/day in e.g. ASTRO-PH



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Keywords:  
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Categories:  
astro-ph\* -- Excluded: astro-ph.EP / astro-ph.SR  
Name of profile:  
Henrik

Number of submissions with keyword match: 92/277, including 61 new submissions

## Submissions with keyword match

★ [26.3] **AGN feedback in dwarf galaxies?**  
Comments: 8 pages, 5 figures

**Gohar Dashyan, Joseph Silk, Gary A. Mamon, Yohan Dubois, Tilman Hartwig**

Dwarf galaxy anomalies, such as their abundance and cusp-core problems, remain a prime challenge in our understanding of galaxy formation. The inclusion of baryonic physics could potentially solve these issues, but the efficiency of stellar feedback is still controversial. We analytically explore the possibility of feedback from Active Galactic Nuclei (AGN) in dwarf galaxies and compare AGN and supernova (SN) feedback. We assume the presence of an intermediate mass black hole within low mass galaxies and standard scaling relations between the relevant physical quantities. We model the propagation and properties of the outflow and explore the critical condition for global gas ejection. Performing the same calculation for SNe, we compare the ability of AGN and SNe to drive gas out of galaxies. We find that a critical halo mass exists below which AGN feedback can remove gas from the host halo and that the critical halo mass for AGN is greater than the equivalent for SNe in a significant part of the parameter space, suggesting that AGN could provide an alternative and more successful source of negative feedback than SNe, even in the most massive dwarf galaxies.

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- arXiv Sanity Preserver **for cs and stat**
- ....

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