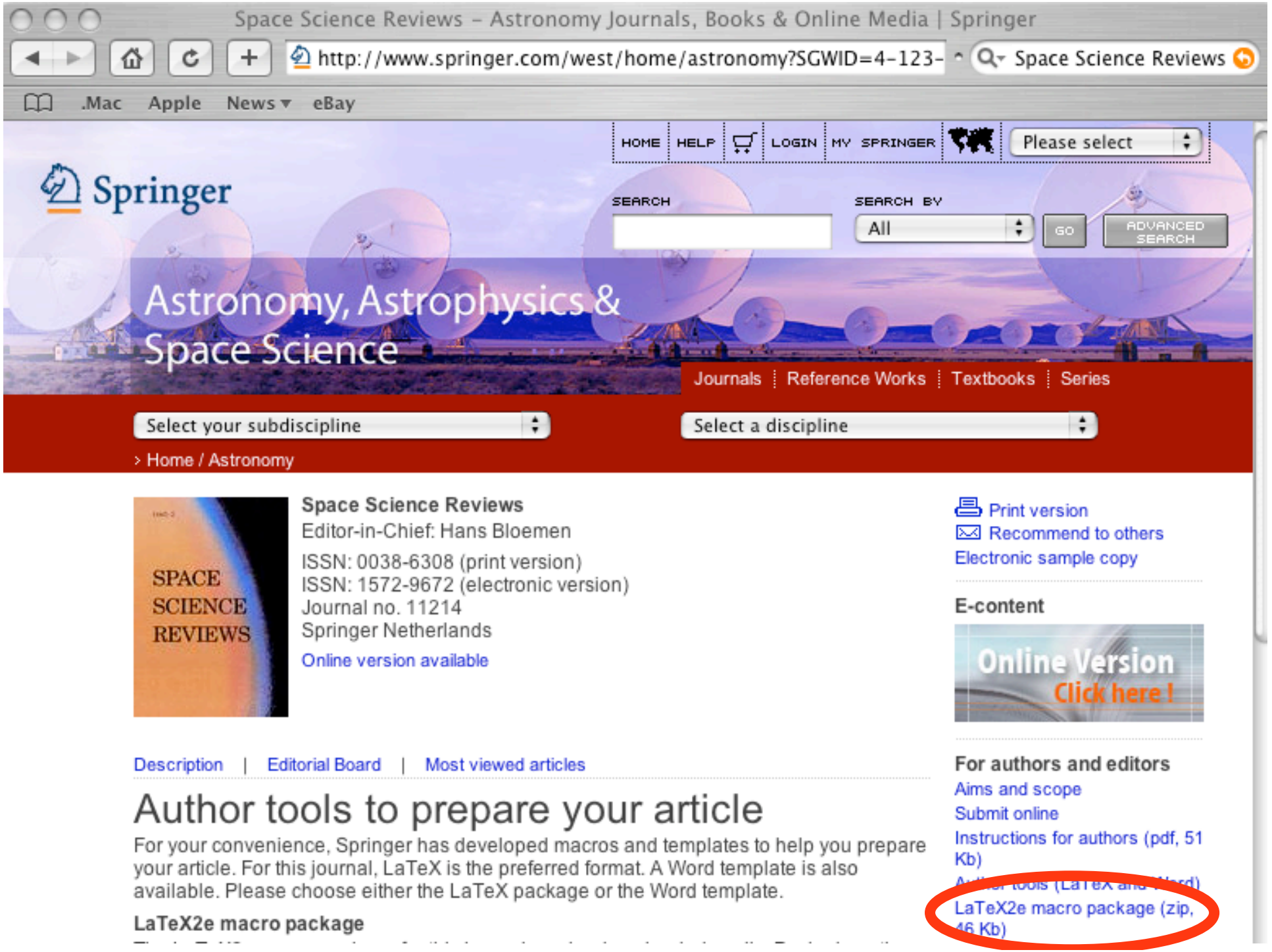
Working with *Space Science Reviews* LaTeX and BibTeX

- *Space Science Reviews* style files
- Labeling things in the LaTeX
- Use of ADS to make .bib file
- Typesetting
- Indexing (mainly for chapter organizers)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Working directory

```
/Users/hughhudson/Desktop/text/presentations/2007/santacruz.070625
[dhcp-125-189:presentations/2007/santacruz.070625] hughhuds% ls
SSRv.cls        natbib.sty      test.blg        test.ind
aa.bst          test.aux        test.dvi        test.log
bibtex.ppt      test.bbl        test.idx        test.pdf
files           test.bib        test.ilg        test.tex
```

Labeling things in TeX file

- Figures like this: \label{fig:hudson_fig1}
- Sections like this: \label{sec:hudson_intro}
- Equations like this \label{eqn:hudson_2+2=4}

Sample .tex file

```
\documentclass[namedreferences]{SSRv}
\usepackage{natbib}
\usepackage{epsfig}
\usepackage{makeidx}
\makeindex

\newcommand{\solphys}{Solar Phys}
\newcommand{\apj}{ApJ}
```

Citation styles

```
% The \cite command functions as follows:
%   \citet{key} ==>>                Jones et al. (1990)
%   \citet*{key} ==>>               Jones, Baker, and Smith (1990)
%   \citep{key} ==>>                (Jones et al., 1990)
%   \citep*{key} ==>>               (Jones, Baker, and Smith, 1990)
%   \citep[chap. 2]{key} ==>>       (Jones et al., 1990, chap. 2)
%   \citep[e.g.][]{key} ==>>        (e.g. Jones et al., 1990)
%   \citep[e.g.][p. 32]{key} ==>>   (e.g. Jones et al., p. 32)
%   \citeauthor{key} ==>>           Jones et al.
%   \citeauthor*{key} ==>>          Jones, Baker, and Smith
%   \citeyear{key} ==>>             1990
```

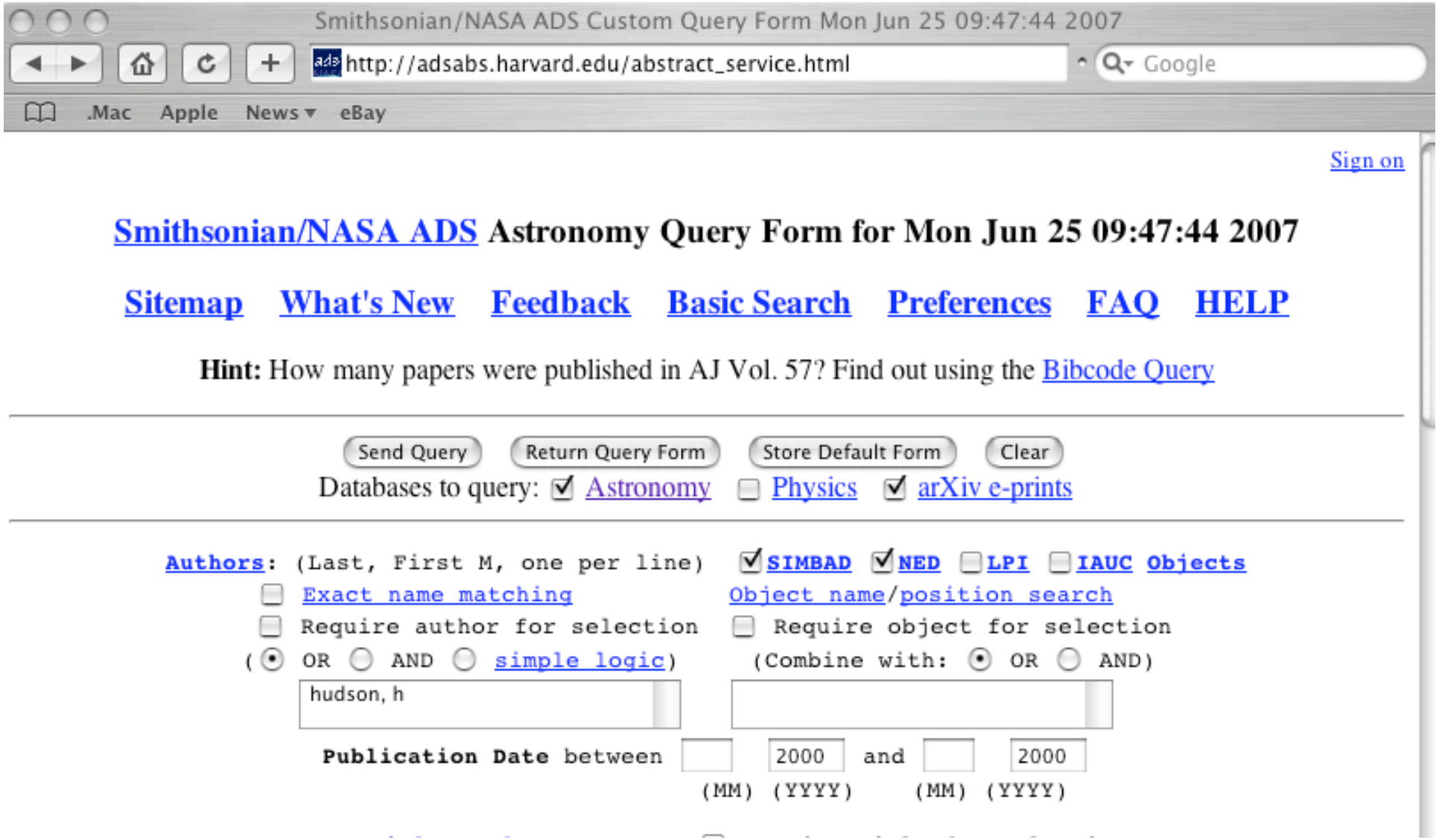
```
\section{Hajime ni}
Am anfang, schuf Gott {\it blarch}\index{blarch} \citep{1982ersf.rept.....S}.
We describe this process with Equation~\ref{eqn:hudson_2+2=4}
\begin{equation}\label{eqn:hudson_2+2=4}
2 + 2 = 4
\end{equation}
and also show this graphically in Figure~\ref{fig:hudson_fig1}

\section{Sorekara}
Entonces, el Dio hecha otras cosas, e.g. {\it blerch}\index{blerch}
\citep{hello_bachtiar,2000ApJ...531L..75H}.

\newpage
\begin{figure}
\begin{center}
\includegraphics[width=0.5\textwidth]{hudson_fig1.eps}
\end{center}
\caption[]{How we put things together in the beginning.
}
\label{fig:hudson_fig1}
\end{figure}


\bibliographystyle{aa}
\bibliography{test}
```

ADS, a wonderful thing



Title: Implosions in Coronal Transients
Authors: Hudson, H. S.
Affiliation: AA(Solar Physics Research Corporation/Institute of Space and Astronautical Science, 3-1-1 Yoshinodai, Sagamihara-shi, Kanagawa 229, Japan; hudson@isass0.solar.isas.ac.jp)
Publication: The Astrophysical Journal, Volume 531, Issue 1, pp. L75-L77. (ApJ Homepage)
Publication Date: 03/2000
Origin: UCP
ApJ Keywords: SUN: CORONA, SUN: FLARES, SUN: MAGNETIC FIELDS
Abstract Copyright: (c) 2000: The American Astronomical Society
DOI: 10.1086/312516
Bibliographic Code: 2000ApJ...531L..75H

Abstract

Coronal events such as flares or coronal mass ejections derive their energy from the energy stored locally in the magnetic field. This leads to the conjecture that a magnetic implosion must occur simultaneously with the energy release. The site of the implosion would show the location of preflare energy storage, and its detection should have a high priority. The Transition Region and Coronal Explorer EUV observations, for example, have sufficient resolution to show the geometry of a flare implosion by following the motions of tracers in the images.

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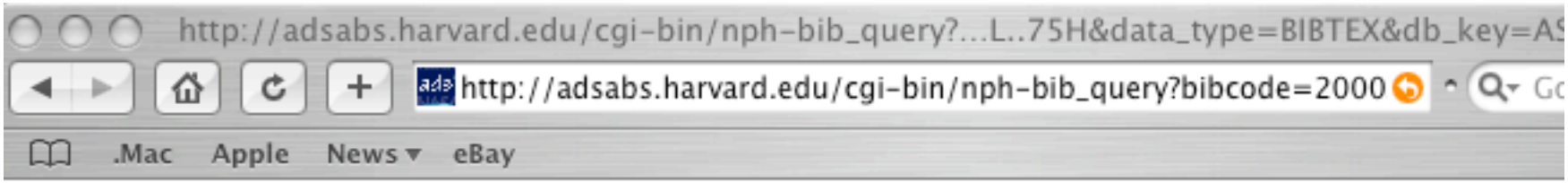

Query Results from the ADS Database

Retrieved 1 abstracts, starting with number 1. Total number selected: 1.

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@ARTICLE{2000ApJ...531L..75H,
   author = {{Hudson}, H.~S.},
    title = "{Implosions in Coronal Transients}",
  journal = {\apjl},
     year = 2000,
    month = mar,
   volume = 531,
    pages = {L75-L77},
      doi = {10.1086/312516},
   adsurl = {http://adsabs.harvard.edu/abs/2000ApJ...531L..75H},
  adsnote = {Provided by the Smithsonian/NASA Astrophysics Data System}
}
```

```
[dhcp-125-189:presentations/2007/santacruz.070625] hughhuds% cat test.bib
@ARTICLE{hello_bachtiar,
    author = {{Anwar}, B. and {Acton}, L.~W. and {Hudson}, H.~S. and {Makita}, M
. and
        {McClymont}, A.~N. and {Tsuneta}, S.},
    title = "{Rapid Sunspot Motion during a Major Solar Flare}",
    journal = {\solphys},
    year = 1993,
    month = oct,
    volume = 147,
    pages = {287-+},
adsurl = {http://adsabs.harvard.edu/cgi-bin/nph-bib_query?bibcode=1993SoPh..147.
.287A&amp;db_key=AST},
adsnote = {Provided by the NASA Astrophysics Data System}
}

@ARTICLE{2000ApJ...531L..75H,
   author = {{Hudson}, H.~S.},
    title = "{Implosions in Coronal Transients}",
  journal = {\apjl},
     year = 2000,
    month = mar,
   volume = 531,
    pages = {L75-L77},
      doi = {10.1086/312516},
   adsurl = {http://adsabs.harvard.edu/abs/2000ApJ...531L..75H},
  adsnote = {Provided by the Smithsonian/NASA Astrophysics Data System}
}

@TECHREPORT{1982ersf.rept.....S,
   author = {{Sturrock}, P.~A. and {Kaufmann}, P. and {Smith}, D.~F.},
    title = "{Energy release in solar flares}",
booktitle = {Unknown},
     year = 1982,
   editor = {{Sturrock}, P.~A. and {Kaufmann}, P. and {Smith}, D.~F.},
    month = oct,
   adsurl = {http://adsabs.harvard.edu/abs/1982ersf.rept.....S},
  adsnote = {Provided by the Smithsonian/NASA Astrophysics Data System}
}
```

How one might use BIBTEX

H.S. Hudson[1]
[1] *Mullard Space Science Laboratory, University College London, Holmbury St. Mary, Dorking, Surrey, RH5 6NT, U.K.* (cpg1@mssl.ucl.ac.uk)

Abstract. How I'm starting to work with the *Space Science Reviews* style files for LaTeX, with special emphasis on handling the bibliography with BibTeX – very convenient.

1. Hajime ni

Am anfang, schuf Gott *blarch* (Sturrock et al. 1982). We describe this process with Equation 1

$$2 + 2 = 4 \tag{1}$$

and also show this graphically in Figure 1

2. Sorekara

Entonces, el Dio hecha otras cosas, e.g. *blerch* (Anwar et al. 1993; Hudson 2000).

$$2 + 2 = 4$$

Figure 1. How we put things together in the beginning.

References

Anwar, B., Acton, L. W., Hudson, H. S., et al. 1993, Solar Phys, 147, 287

Hudson, H. S. 2000, ApJL, 531, L75

Sturrock, P. A., Kaufmann, P., & Smith, D. F. 1982, Energy release in solar flares, Tech. rep.

Notes

- The SSR style system is slightly broken, but Stephen White is working on fixing it
- BibTeX is great. You can use your own idiosyncratic labels, but the ADS tag is unique, universal, and pretty informative
- We can easily do indexing using MakeIndex