

astroquery_testing

March 21, 2016

```
In [1]: from astroquery.nist import Nist
        from astropy import units as u
```

```
In [2]: Nist.query?
```

```
In [3]: rslt = Nist.query(6560*u.AA, 6570*u.AA)
```

```
In [4]: rslt
```

```
Out[4]: <Table masked=True length=15>
```

Observed float64	Ritz float64	Rel. int64	Aki float64	...	Type str2	TP str5	Line str8
6564.522552	6564.522555	--	53877000.0	...	--	T8637	L2752
--	6564.527	--	--	...	--	--	c67
--	6564.535	--	--	...	--	--	c68
6564.537684	6564.537684	--	22448000.0	...	--	T8637	L6891c38
--	6564.564672	--	2104600.0	...	--	T8637	--
--	6564.579878	--	--	...	M1	--	--
--	6564.583	--	--	...	--	--	c66
6564.584404	6564.584403	--	22449000.0	...	--	T8637	L6891c38
6564.6	6564.632	500000	44101000.0	...	--	T8637	L7400c29
--	6564.608	--	--	...	--	--	c69
6564.66464	6564.66466	--	64651000.0	...	--	T8637	L2752
--	6564.6662	--	--	...	--	--	c71
--	6564.667	--	--	...	--	--	c70
--	6564.680232	--	10775000.0	...	--	T8637	--
--	6564.722349	--	4209700.0	...	--	T8637	--

```
In [2]: import requests
```

```
In [24]: rslt = requests.post('http://physics.nist.gov/cgi-bin/ASD/ie.pl', params={'spectra':'Fe', 'form': 'Fe'})
```

```
In [25]: rslt.raise_for_status()
```

```
In [1]: from bs4 import BeautifulSoup
```

```
In [10]: bs = BeautifulSoup(rslt.content, "html5lib")
```

```
In [12]: import pandas as pd
```

```
In [16]: test2 = pd.read_html(rslt.text)
```

```
In [17]: len(test2)
```

```
Out[17]: 2
```

```

In [20]: test2[1]

Out[20]:
0
0 Ionization Energy a (cm-1)

In [28]: from astroquery.eso import Eso

In [29]: rslt = Eso.query_instrument('naco', target='Sgr A*')

In [30]: instrument_form = requests.get('http://archive.eso.org/wdb/wdb/eso/naco/form')

In [36]: inst_response = Eso._activate_form(instrument_form, form_index=0, inputs={'target':'sgr a*', 'v

In [3]: rslt = requests.post('http://simbad.u-strasbg.fr/simbad/sim-id', params={'Ident':'sgr a*'})

In [4]: print(rslt.text)

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<HTML>
<head>
<meta http-equiv="X-UA-Compatible" content="IE=edge" />
<link href="http://cds.u-strasbg.fr/cds-navbar-resources/css/cdshead.min.css" rel="stylesheet" />
<script type="text/javascript" src="http://cds.u-strasbg.fr/cds-navbar-resources/js/jquery-1.10.1.min.js"></script>
<script type="text/javascript">var jqMenu = jQuery.noConflict();</script>
<script type="text/javascript" src="http://cds.u-strasbg.fr/cds-navbar-resources/js/cdsmenu.min.js"></script>
<link rel="stylesheet" href="http://simbad.u-strasbg.fr/Simlib/sed.css" type="text/css" />
<link rel="stylesheet" href="http://simbad.u-strasbg.fr/Simlib/tables.css" type="text/css" />
<link rel="stylesheet" href="http://simbad.u-strasbg.fr/Simlib/myAladinLite.css" type="text/css" />
<link rel="search" type="application/opensearchdescription+xml" title="SIMBAD basic" href="http://simbad.u-strasbg.fr/Simlib/opensearch.xml" />
<script src="/Simlib/jquery.min.js" type="text/javascript"></script>
<script src="/Simlib/myAladinLite.js" type="text/javascript"></script>
<script src="/Simlib/jquery.dataTables.min.js" type="text/javascript"></script>
<script src="/Simlib/simbad.js" type="text/javascript"></script>
<script src="/Simlib/tables.js" type="text/javascript"></script>
<script src="/Simlib/jquery-ui.js" type="text/javascript"></script>
<script src="/samp/simbad-samp.js" type="text/javascript"></script>
<link rel="stylesheet" href="http://simbad.u-strasbg.fr/css/simbad.css" type="text/css" />
<link rel="stylesheet" href="/Simlib/jquery.dataTables.min.css" type="text/css" />
<link rel="stylesheet" href="/htree/css/style.css" type="text/css" />
<script src="/htree/js/CanvasSVG.js"></script>
<script src="/htree/js/Circle.js"></script>
<script src="/htree/js/script.js"></script>
<TITLE>sgr a*</TITLE></head>
<body>
<div class="navbar navbar-top">
<div class="navbar-inner simbad">
<div class="container-fluid minwidth920">
<a class="brand" title="CDS home" href="http://cds.u-strasbg.fr/"> CDS</a>
<div class="nav-collapse">
<ul class="nav">
<li id="portalNavbarItem"><a href="http://cdsportal.u-strasbg.fr">Portal</a></li>
<li id="simbadNavbarItem"><a href="http://simbad.u-strasbg.fr/simbad">Simbad</a></li>
<li id="vizierNavbarItem"><a href="http://vizier.u-strasbg.fr/viz-bin/VizieR">VizieR</a></li>
<li id="aladinNavbarItem"><a href="http://aladin.u-strasbg.fr/aladin.gml">Aladin</a></li>
<li id="xmatchNavbarItem"><a href="http://cdsxmatch.u-strasbg.fr">X-Match</a></li>

```

```

<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">Other<b class="caret"></b></a>
<ul class="dropdown-menu">
<li><a href="http://cds.u-strasbg.fr/cgi-bin/Sesame">Sesame name resolver</a></li>
<li><a href="http://cdsarc.u-strasbg.fr/viz-bin/Cat">Catalogue collection</a></li>
<li><a href='http://tapvizier.u-strasbg.fr/adql/' alt='TAP Vizier'>TAP Vizier</a></li>
<li><a href="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad">Dictionary of nomenclature</a></li>
<li><a href="http://cdsweb.u-strasbg.fr/SimPlay">SimPlay</a></li>
<li><a href="http://cdsbib.u-strasbg.fr/cgi-bin/cdsbib">Bibliography</a></li>
<li class="divider"></li>
<li><a href="mailto:cds-question@unistra.fr">Contact us</a></li>
</ul>
</li>
<li class="divider"></li>
<li><a href="http://cdsweb.u-strasbg.fr/help">Help</a></li>
</ul>
<div class="nav pull-right serviceLogo simbad">
</div>
</div><!--/.nav-collapse -->
</div>
</div>
</div>
<script type="text/javascript">setMenuItem("simbad");</script>
<div class="cdsPageTitle"><h1>sgr a*</h1></div><div style="margin: 10px"> <TABLE CELLPADDING="6">
  <TR ALIGN="LEFT" VALIGN="TOP" id="menu">
    <TD>
      <B>
        <I>
other query<br>modes :      </I>
      </B>
    </TD>
    <TD ALIGN="CENTER" BGCOLOR="#CCCCFF" id="nav-1">
      <A title="Query by object names, catalogue names, wildcards" HREF="sim-fid">
        <FONT SIZE="+0" COLOR="#000000">
Identifier<br>query      </FONT>
      </A>
    </TD>
    <TD ALIGN="CENTER" BGCOLOR="#CCCCFF" id="nav-2">
      <A title="Query by position with radius, epoch, equinox" HREF="sim-fcoo">
        <FONT SIZE="+0" COLOR="#000000">
Coordinate<br>query      </FONT>
      </A>
    </TD>
    <TD ALIGN="CENTER" BGCOLOR="#CCCCFF" id="nav-3">
      <A title="Query by filters on magnitude, velocity ..." HREF="sim-fsam">
        <FONT SIZE="+0" COLOR="#000000">
Criteria<br>query      </FONT>
      </A>
    </TD>
    <TD ALIGN="CENTER" BGCOLOR="#CCCCFF" id="nav-5">
      <A title="Query by publication, year, journal ..." HREF="sim-fref">
        <FONT SIZE="+0" COLOR="#000000">
Reference<br>query      </FONT>
      </A>

```



```

&nbsp;&bull;&nbsp;&nbsp;<A HREF="#lab_bib">
Bibliography </A>
&nbsp;&bull;&nbsp;&nbsp;<A HREF="#lab_meas">
Measurements </A>
&nbsp;&bull;&nbsp;&nbsp;<A HREF="#lab_arch">
External archives </A>
&nbsp;&bull;&nbsp;&nbsp;<A HREF="#lab_notes">
Notes </A>
&nbsp;&bull;&nbsp;&nbsp;<A HREF="#lab_annotations">
Annotations </A>
<HR><P><A NAME="lab_basic"></A>
<script language="JavaScript" type="text/javascript" src="/Simlib/viz2.js"> </script>
<TABLE WIDTH="100%" CELSPACING="2">
<TR>
<TD>
<FONT SIZE="+1">
<B>
Basic data :
</B>
</FONT>
</TD>
<TD ALIGN="RIGHT" VALIGN="MIDDLE">
<INPUT TYPE="image" NAME="sendBySAMP" ID="sendBySAMP" VALUE="sendBySAMP" SRC="http://simbad.u-stras
</TD>
</TR>
<TR>
<P> <TD VALIGN="TOP" id="basic_data" style="min-width: 830px;">
<TABLE>
<TR>
<TD NOWRAP colspan="2">
<FONT SIZE="+2">
<B>
NAME Sgr A*
</B>
--
X-ray source
</FONT>
</TD>
</TR>
<TR>
<TD ALIGN="LEFT" VALIGN="TOP" NOWRAP>
<SPAN class="info-tooltip">
<DIV>
<FONT SIZE='1'>
Origin of the objects types :

<P>
(Ref) Object type as listed in the reference "Ref"<BR>
(acronym) Object type linked to the acronym according to the original reference<BR>
() Anterior to 2007, before we can link the objet type to a reference, or given by the CDS team in some
</FONT>
</DIV>
Other object types:
</SPAN>

```

```

        </TD>
        <TD>
        <B>
        <TT>
Rad
        </TT>
        </B>
<TT title="">()</TT>,
        <B>
        <TT>
gam
        </TT>
        </B>
<TT title="">()</TT>,
        <B>
        <TT>
X
        </TT>
        </B>
<TT title="SWIFT,AX,CXOGC,[BGM2005],[SKM2002]">(SWIFT,AX,...)</TT>      </TD>
    </TR>
    <TR>
    <TD NOWRAP>
    <SPAN class="info-tooltip">
    <DIV>
<FONT SIZE='-1'>
Syntax of coordinates is : "ra dec (wtype) [error ellipse] quality bibcode" :
<UL>
<LI><EM>ra dec</EM> : right ascension and declination (unit and frame defined according to your Output)
Grey values are increasing the original precision due to the computation of frame transformations
<LI><EM>(wtype)</EM> : wavelength class for the origin of the coordinates (Rad, mm, IR, Optical, UV, Xr
<LI><EM>[error ellipse]</EM> : coordinates error major axis, minor axis (in mas at epoch defined in your
position angle (in degrees North to East of the specified coordinate frame)
<LI><EM>quality</EM> : flag of quality
<UL>
<LI>E &gt;= 10"
<LI>D : 1-10" (and some old data)
<LI>C : 0.1-1"
<LI>B : 0.01-0.1" + 2MASS, Tyc
<LI>A : VLBI, Hipparcos
</UL>
<LI><EM>bibcode</EM> : bibcode of the coordinates reference
</UL>

</FONT>
    </DIV>
    <B>
ICRS
    </B>
    coord.
    <I>
(ep=J2000) :
    </I>
    </SPAN>

```

```

        </TD>
        <TD>
        <B>
        <TT>
17 45 40.03599 -29 00 28.1699

        <SPAN title="wavelength class for the origin of the measure">
(Radio)
        </SPAN>
        <SPAN title="error ellipse">
[
2.65 1.42 0
]
        </SPAN>
        <SPAN title="quality flag (A->E)">
B

        </SPAN>
        <SPAN class="bibcode">
<A HREF="http://simbad.u-strasbg.fr/simbad/sim-ref?bibcode=2011AJ...142...35P">2011AJ...142...35P</A>
        </TT>
        </B>
        </TD>
</TR>
<TR>
        <TD NOWRAP>
        <SPAN class="info-tooltip">
        <DIV>
<FONT SIZE='-1'>
Syntax of coordinates is : "ra dec (wtype) [error ellipse] quality bibcode" :
<UL>
<LI><EM>ra dec</EM> : right ascension and declination (unit and frame defined according to your Output)
Grey values are increasing the original precision due to the computation of frame transformations
<LI><EM>(wtype)</EM> : wavelength class for the origin of the coordinates (Rad, mm, IR, Optical, UV, Xr
<LI><EM>[error ellipse]</EM> : coordinates error major axis, minor axis (in mas at epoch defined in your
position angle (in degrees North to East of the specified coordinate frame)
<LI><EM>quality</EM> : flag of quality
<UL>
<LI>E &gt;= 10"
<LI>D : 1-10" (and some old data)
<LI>C : 0.1-1"
<LI>B : 0.01-0.1" + 2MASS, Tyc
<LI>A : VLBI, Hipparcos
</UL>
<LI><EM>bibcode</EM> : bibcode of the coordinates reference
</UL>

</FONT>
        </DIV>
        <B>
FK5

        </B>
        coord.
        <I>

```

```

(ep=J2000 eq=2000) :
    </I>
    </SPAN>
</TD>
<TD>
    <TT>
17 45 40.036 -29 00 28.17

    <SPAN title="error ellipse">
[
2.65 1.42 0
]
    </SPAN>
    </TT>
</TD>
</TR>
<TR>
    <TD NOWRAP>
    <SPAN class="info-tooltip">
    <DIV>
<FONT SIZE='-1'>
Syntax of coordinates is : "ra dec (wtype) [error ellipse] quality bibcode" :
<UL>
<LI><EM>ra dec</EM> : right ascension and declination (unit and frame defined according to your Output 0
Grey values are increasing the original precision due to the computation of frame transformations
<LI><EM>(wtype)</EM> : wavelength class for the origin of the coordinates (Rad, mm, IR, Optical, UV, Xr
<LI><EM>[error ellipse]</EM> : coordinates error major axis, minor axis (in mas at epoch defined in your
position angle (in degrees North to East of the specified coordinate frame)
<LI><EM>quality</EM> : flag of quality
<UL>
<LI>E &gt;= 10"
<LI>D : 1-10" (and some old data)
<LI>C : 0.1-1"
<LI>B : 0.01-0.1" + 2MASS, Tyc
<LI>A : VLBI, Hipparcos
</UL>
<LI><EM>bibcode</EM> : bibcode of the coordinates reference
</UL>

</FONT>
    </DIV>
    <B>
FK4
    </B>
    coord.
    <I>
(ep=B1950 eq=1950) :
    </I>
    </SPAN>
</TD>
<TD>
    <TT>
17 42 29.30 -28 59 18.6

```



```

        <INPUT TYPE="hidden" NAME="-c" ID="-c" VALUE="17 45 40.03599-29 00 28.1699" />
        <INPUT TYPE="number" NAME="-c.r" required="true" min="1" max="30" pattern="[0-9]{1,2}\.[0-9]*
arcsec
        <INPUT TYPE="hidden" NAME="-c.u" ID="-c.u" VALUE="arcsec" />
        <INPUT TYPE="hidden" NAME="show_settings" ID="show_settings" VALUE="1" />
        <SPAN ID="sed-help-text" class="tooltip">
<FONT SIZE='-1'> The <B>VizieR photometry tool</B> allows for easy visualization of photometry <B>point
        </DIV>
        </FORM>
        </TD>
        </TR>
        </TABLE>
        </TD>
        </TR>
        <TR>
        <TABLE>
        <TR>
        <TD VALIGN="TOP">
        <SPAN class="info-tooltip">
        <DIV>
<FONT SIZE='-1'>
Some important notes on this object about identifications and objects associations.
</FONT>
        </DIV>
notes:      </SPAN>
<P>      </TD>
        <TD VALIGN="TOP">
        <UL>
        <LI>
<!-- Input on stdin (cgitprint-9.09) -->
has an IR counterpart labeled SgrA* IR in <A HREF="http://cdsbib.u-strasbg.fr/cgi-bin/cdsbib?2004ApJ...
        </LI>
        <LI>
<!-- Input on stdin (cgitprint-9.09) -->
see also <A HREF="http://simbad.u-strasbg.fr/simbad/sim-id?Ident=NAME%20SGR%20A%20Cluster">NAME SGR
        </LI>
        <LI>
<!-- Input on stdin (cgitprint-9.09) -->
detection of two flaring sources on 2004 March 31: <A HREF="http://simbad.u-strasbg.fr/simbad/sim-id?Id
        </LI>
        </UL>
        </TD>
        </TR>
        </TABLE>
<P> </TR>
        </TABLE>
<HR><P> <TABLE>
        <TR>
        <TD ALIGN="LEFT" VALIGN="TOP" NOWRAP style="min-width: 800px;">
        <FONT SIZE="+1">
        <B>
Hierarchy :
        </B>
number of linked objects

```

```

<BR>      <I>
whatever the membership probability is
      </I>
      <I>
(see description
      </I>
<A HREF="http://simbad.u-strasbg.fr/simbad/./Pages/data_hierarchy.htx">here</A>      <I>
)
      </I>
      <B>
:
      </B>
</FONT>
<P>      <FORM ACTION="sim-id" METHOD="GET" target="_blank">
      <INPUT TYPE="hidden" NAME="Ident" ID="Ident" VALUE="SWIFT J1746.3-2850A" />
      <INPUT TYPE="hidden" NAME="NbIdent" ID="NbIdent" VALUE="query_hlinks" />
      <INPUT TYPE="hidden" NAME="Coord" ID="Coord" VALUE="17 45 40.03599-29 00 28.1699" />
      <TABLE CELLPADDING="12">
      <TD VALIGN="MIDDLE" WIDTH="12%">
      <INPUT TYPE="hidden" NAME="parents" ID="parents" VALUE="1" />
      <INPUT TYPE="submit" NAME="submit" VALUE="parents" />
:
1
      </TD>
      <TD VALIGN="MIDDLE" WIDTH="12%" />
      <TD VALIGN="MIDDLE" WIDTH="12%" />
      <TD VALIGN="MIDDLE" WIDTH="34%">
Display criteria :
<BR>      <SELECT NAME="hlinksdisplay">
      <OPTION VALUE="h_all">
All      </OPTION>
      <OPTION VALUE="h_90">
>=90%    </OPTION>
      <OPTION VALUE="h_stars">
stars    </OPTION>
      <OPTION VALUE="h_galaxies">
galaxies </OPTION>
      <OPTION VALUE="h_radio">
radio     </OPTION>
      <OPTION VALUE="h_IR">
IR        </OPTION>
      <OPTION VALUE="h_around">
<math>\lt;2\text{ arcsec}</math> </OPTION>
      <OPTION VALUE="h_numref">
#ref>50   </OPTION>
      </SELECT>
      </TD>
      </TABLE>
      </FORM>
      </TD>
      <TD ALIGN="RIGHT" VALIGN="TOP">
<svg id="hierarchy" height="160" width="220"></svg>      </TD>
      </TR>
</TABLE>

```

```

<HR><P><A NAME="lab.ident"></A>
<TABLE>
  <TR>
    <TD>
      <SPAN class="info-tooltip">
        <DIV>
<FONT SIZE='-1'>
The link on the acronym of the identifiers give access to the
information for this acronym in the dictionary of nomenclature.
</FONT>
      </DIV>
      <FONT SIZE="+1">
        <B>
Identifiers (13) :
        </B>
      </FONT>
    </SPAN>
  </TD>
</TR>
</TABLE>
<P> <TABLE WIDTH="100%">
  <TR>
    <TD>
      <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?SWIFT">SWIFT</A> J1746.3-2850A
        </TT>
      </B>
    </TD>
    <TD>
      <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?NAME%20SGR%20A">NAME</A> SGR A *
        </TT>
      </B>
    </TD>
    <TD>
      <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?NAME%20SGR">NAME</A> SGR A
        </TT>
      </B>
    </TD>
    <TD>
      <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?%5bSKM2002%5d">[SKM2002]</A> 28
        </TT>
      </B>
    </TD>
  </TR>
<TR>
  <TD>
    <B>

```

<p> <TT> AX J1745.6-2900 </TT> </TD> <TD> <TT> NAME SgrA*/IR </TT> </TD> <TD> <TT> NAME SAGITTARIUS A </TT> </TD> <TD/> </TR> <TR> <TD> <TT> CXOGC J174540.0-290027 </TT> </TD> <TD> <TT> NAME Sgr A*/L' </TT> </TD> <TD> <TT> [BGM2005] J174540.14-290028.40 </TT> </TD> <TD/> </TR> <TR> <TD> <TT> NAME Sgr A* </TT> </TD> <TD> </p>	
--	--

```

        <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?NAME%20Sgr%20A*">NAME</A> Sgr A* IR
        </TT>
        </B>
    </TD>
    <TD>
        <B>
        <TT>
<A HREF="http://cds.u-strasbg.fr/cgi-bin/Dic-Simbad?%5bBGM2005%5d">[BGM2005]</A> J174540.08-290028.48
        </TT>
        </B>
    </TD>
    <TD/>
</TR>
</TABLE>
<HR><P><A NAME="lab_plot"></A>
<P> <TABLE WIDTH="80%">
    <TR VALIGN="TOP">
        <TD WIDTH="12%">
            <FONT SIZE="+1">
                <B>
Plots and Images
                </B>
            </FONT>
        </TD>
        <TD ALIGN="CENTER" VALIGN="TOP" WIDTH="7%">
            <FORM ACTION="sim-plot" METHOD="GET" target="_blank">
                <INPUT TYPE="hidden" NAME="ident" ID="ident" VALUE="NAME Sgr A*" />
                <INPUT TYPE="hidden" NAME="coo" ID="coo" VALUE="17 45 40.03599-29 00 28.1699" />
                <INPUT TYPE="hidden" NAME="radius.unit" ID="radius.unit" VALUE="arcmin" />
                <INPUT TYPE="image" VALUE="plot around" SRC="http://simbad.u-strasbg.fr/icons/plot-icon.png" BORDER=
            <BR>                <B>
plot
            </B>
        <P>radius
            <INPUT TYPE="text" NAME="radius" SIZE="8" MAXLENGTH="8" VALUE="10" />
        arcmin
            </FORM>
        </TD>
        <TD ALIGN="CENTER" VALIGN="TOP" WIDTH="7%">
            <A HREF="http://cdsportal.u-strasbg.fr/#NAME%20Sgr%20A*" TARGET="_blank">
                <IMG SRC="http://simbad.u-strasbg.fr/icons/portal-icon.png" BORDER="0" />
            </A>
        <BR>        <B>
CDS portal
        </B>
    </TD>
    <TD ALIGN="CENTER" VALIGN="TOP" WIDTH="7%">
        <A HREF="http://cdsweb.u-strasbg.fr/SimPlay/#target=NAME%20Sgr%20A*&lp=true&rp=true&bp=true" TARGET=
        <IMG SRC="http://simbad.u-strasbg.fr/icons/simplay-icon.png" BORDER="0" />
        </A>
    <BR><B>CDS Simplay</B><br><I><FONT size='-1'>(requires flash)</FONT></I>    </TD>
    <TD ALIGN="CENTER" VALIGN="TOP" WIDTH="7%">

```

```

        <A HREF="http://aladin.u-strasbg.fr/java/nph-aladin.pl?script=get%20Aladin%20NAME%20Sgr%20A*%2011ar
        <IMG SRC="http://simbad.u-strasbg.fr/icons/aladin-icon.png" BORDER="0" />
    </A>
<BR>    <B>
Aladin applet
    </B>
</TD>
</TR>
</TABLE>
<HR><P><A NAME="lab_bib"></A>
    <TABLE WIDTH="100%">
    <TR>
    <TD VALIGN="TOP">
    <FONT SIZE="+1">
    <B>
References (2494 between 1850 and 2016)
    </B>
    </FONT>
<BR>    <FONT SIZE="-1">
    <I>
Simbad bibliographic survey began in 1950 for stars (at least bright stars) and in 1983 for all other o
    </I>
    </FONT>
<BR>    <A HREF="http://simbad.u-strasbg.fr/tools/SimWatch/manage" TARGET="_blank">
    <IMG SRC="http://simbad.u-strasbg.fr/icons/simWatch.png" BORDER="0" />
    </A>
    <A HREF="http://simbad.u-strasbg.fr/tools/SimWatch/manage/?add_object=NAME%20Sgr%20A*">
Follow    </A>
    new references on this object
    </TD>
    <TD VALIGN="TOP">
    <FORM ACTION="sim-id-refs" METHOD="GET" id="sim-id-refs" target="_blank">
    <INPUT TYPE="submit" NAME="submit" VALUE="sort references" />
    <INPUT TYPE="hidden" NAME="Ident" ID="Ident" VALUE="@2419046" />
    <INPUT TYPE="hidden" NAME="Name" ID="Name" VALUE="NAME Sgr A*" />
    </FORM>
    <FORM ACTION="sim-id#lab_bib" METHOD="GET">
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    <OPTION VALUE="bibnum">
number of references    </OPTION>
    <OPTION VALUE="bibcode">
only bibcodes    </OPTION>
    <OPTION VALUE="refsum" SELECTED>
reference summary    </OPTION>
    <OPTION VALUE="bibnumauthors">
number of references by 1st author    </OPTION>
    <OPTION VALUE="bibnumyears">
number of references by year    </OPTION>
    <OPTION VALUE="bibnumjournals">
number of references by journal    </OPTION>
    </SELECT>
<P>from:
    <INPUT TYPE="text" NAME="bibyear1" SIZE="10" MAXLENGTH="12" VALUE="1850" />

```



```

&nbsp;&nbsp;&nbsp;<P> <INPUT TYPE="hidden" NAME="Ident" ID="Ident" VALUE="@2419046" />
  <INPUT TYPE="hidden" NAME="Name" ID="Name" VALUE="NAME Sgr A*" />
  <INPUT TYPE="submit" NAME="submit" VALUE="display selected measurements" />
&nbsp;&nbsp;&nbsp;<INPUT TYPE="submit" NAME="submit" VALUE="display all measurements" />
&nbsp;&nbsp;&nbsp;<INPUT TYPE="submit" NAME="submit" VALUE="clear" />
  </FORM>
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<A NAME="lab_external"></A>
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    <B>
External archives :
  </B>
  </FONT>
<P>Archive data at
<A HREF="http://simbad.u-strasbg.fr/simbad/./heasarc/W3Browse/w3basic.pl?Tables=%40All+Archives&Coordi
<A HREF="http://nedwww.ipac.caltech.edu/cgi-bin/nph-objsearch?objname=AX%20J1745.6-2900&extend=no&out_cs
<A HREF="http://vizier.u-strasbg.fr/">VizieR</A> :
<P><A HREF="http://vizier.u-strasbg.fr/viz-bin/VizieR-4?-c=266.41681662-29.00782497&-c.rs=5&-out.add=.r&
<HR><P><P><A NAME="lab_annotations"></A>
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    <B>
Annotations :
  </B>
  </FONT>
<BR> <FONT SIZE="+0">
  <I>
Annotations allow a user to add a note or report an error concerning the astronomical object and its data
  </FONT>
<P>Currently no annotations available
<P><A HREF="http://cdsannotations.u-strasbg.fr/annotations/simbadObject/2419046/new">add an annotation
<div class="cdstail">
<hr class="simbad"/>
<div>
<div>2016.03.14-17:28:37</div>
<div>
<p>&copy; UDS/CNRS</p>
<p><a href="mailto:cds-question@unistra.fr?Subject=Simbad"><i class="icon-envelope"></i> Contact</a></p>
</div>
</div>
</div><script type="text/javascript">var piwikSiteId="simbad";</script>
<script type="text/javascript" src="http://cdsannotations.u-strasbg.fr/piwikinit"></script>
<script type="text/javascript" src="http://cdsannotations.u-strasbg.fr/piwiktracker"></script></body>
</HTML>

```

```
In [8]: bs = BeautifulSoup(rslt.content, "html5lib")
```

```
In [9]: bs.findAll('td')
```

```

-----
AttributeError                                Traceback (most recent call last)

<ipython-input-9-2a9594d92307> in <module>()
----> 1 bs.findAll('td')
```

```

/Users/adam/anaconda/envs/astropy35/lib/python3.5/site-packages/beautifulsoup4-4.4.1-py3.5.egg/
1257         if not recursive:
1258             generator = self.children
-> 1259         return self.find_all(name, attrs, text, limit, generator, **kwargs)
1260     findAll = find_all      # BS3
1261     findChildren = find_all # BS2

```

```

/Users/adam/anaconda/envs/astropy35/lib/python3.5/site-packages/beautifulsoup4-4.4.1-py3.5.egg/
527         if isinstance(element, Tag)
528             and element.name == name)
--> 529         return ResultSet(strainer, result)
530     results = ResultSet(strainer)
531     while True:

```

```

/Users/adam/anaconda/envs/astropy35/lib/python3.5/site-packages/beautifulsoup4-4.4.1-py3.5.egg/
1722     that created it."""
1723     def __init__(self, source, result=()):
-> 1724         super(ResultSet, self).__init__(result)
1725         self.source = source

```

```

/Users/adam/anaconda/envs/astropy35/lib/python3.5/site-packages/beautifulsoup4-4.4.1-py3.5.egg/
524         elif isinstance(name, str):
525             # Optimization to find all tags with a given name.
--> 526             result = (element for element in generator
527                 if isinstance(element, Tag)
528                 and element.name == name)

```

```

/Users/adam/anaconda/envs/astropy35/lib/python3.5/site-packages/beautifulsoup4-4.4.1-py3.5.egg/
1275         while current is not stopNode:
1276             yield current
-> 1277             current = current.next_element
1278
1279     # CSS selector code

```

AttributeError: 'NoneType' object has no attribute 'next_element'

In []: