```
pdflatex -interaction nonstopmode -recorder -output-directory latex.out '/tmp/downloads/tmp_6271/SAUNAS-III Galaxy Scaling Relations of X-
ray Diffuse Emission.tex'
CORE-AAS/aastex631.cls: warning: You have requested document class `CORE-AAS/aastex631',
/usr/share/texlive/texmf-dist/tex/latex/etoolbox/etoolbox.sty: warning: [etoolbox] Patching '\begin' failed! '\AtBeginEnvironment' will not work /usr/share/texlive/texmf-dist/tex/latex/etoolbox/etoolbox.sty: warning: [etoolbox] Patching '\end' failed! '\AtEndEnvironment' will not work /usr/share/texlive/texmf-dist/tex/latex/etoolbox.sty: warning: [etoolbox] Patching '\end' failed! '\AtEndEnvironment' will not work
/usr/share/texlive/texmf-dist/tex/latex/etoolbox/etoolbox.sty: warning: [etoolbox] Patching 'lend' failed! '\AfterEndEnvironment' will not work
/usr/share/texlive/texmf-dist/tex/latex/koma-script/scrextend.sty: warning: Command \@footnotemark has changed
/usr/share/texlive/texmf-dist/tex/latex/siunitx/siunitx.sty: warning: extra `}' in log; file names may be wrong /usr/share/texlive/texmf-dist/tex/latex/siunitx/siunitx.sty: warning: extra `}' in log; file names may be wrong /usr/share/texlive/texmf-dist/tex/latex/siunitx/siunitx.sty: warning: extra `}' in log; file names may be wrong /usr/share/texlive/texmf-dist/tex/latex/siunitx/siunitx.sty: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
       at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
       at \collaboration@sw {\advance \c@collab \@ne \@argswap {\CO@grp \CO...
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \@argswap has an extra }
       at \par
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \@argswap was complete
       at \par
     from \verb|\titleformat| \end{|} large end{|} large e
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \@argswap has an extra }
       at \par
     from \verb|\titleformat{\section}| \color{NavyBlue}| normal font \verb|\large| bfse..
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \@argswap was complete
       at \par
     from \verb|\titleformat| \end{|} \color{NavyBlue} \normal font \verb|\large| \bfse..
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \add@AUCO@grp has an extra }
       at \par
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse.
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \add@AUCO@grp was complete
       at \par
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp 6271/SAUNAS-III:33: error: Undefined control sequence
       at ...dr@def \expandafter \@tempa \@affil \def \AFF@opr {\@affil@mat...
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \@affil@match has an extra }
       at \par
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \@affil@match was complete
       at \par
     from \verb|\titleformat{\section}| \color{NavyBlue}| \normalfont \verb|\large| \bfse..
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
       at ... {\@affil@match \@tempa }\@AFF@list
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp 6271/SAUNAS-III:33: error: Undefined control sequence
       at ...\@argswap@val \expandafter {\@affil }{\add@list@val@val@val \@...
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
       at \AU@grp
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
       at ... \CO@opr \@author@gobble \@AFG@list \temp@sw {}{\appdef \@AFG@.
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
```

```
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at \CO@grp
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at \CO@grp
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
    at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse..
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (31.71373pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (21.511pt too wide) (page 1) /tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (20.0888pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (33.86646pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (8.72212pt too wide) (page 1)
/tmp/downloads/tmp 6271/SAUNAS-III:33: warning: Overfull \hbox (22.1109pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
   at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse.
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (34.77783pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (12.83334pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (13.33337pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (26.26366pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (25.87486pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (16.39577pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (20.05559pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (8.33336pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (23.88893pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (33.33339pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: No \title given
    at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at ...@footnote \expandafter {\@title@aux }\fi
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
    at \frontmatter@footnote ...atch \@tempa }\@FMN@list \temp@sw {\expandafter \fr...
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
    at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at \Hy@colorlink
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp 6271/SAUNAS-III:33: error: Undefined control sequence
    at \close@pdflink ->\Hy@endcolorlink \Hy@VerboseLinkStop \pdfendlink
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at \@FMN@list
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (62.38896pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \AFF@opr has an extra }
    at \par
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \AFF@opr was complete
   at \par
  from \verb|\titleformat{\section}| \color{NavyBlue}| normal font \verb|\large| bfse... |
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (10.00002pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at \@pacs
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
   at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Undefined control sequence
   at ...@keys@format \@keys@name \@keywords \vrule depth 12pt width 0...
  from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
```

```
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (55.95883pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (57.26437pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
        at \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (8.6399pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Argument of \@xdblarg has an extra }
     from \verb|\title| format{\section}{\centering\color{NavyBlue}\normal font\large\bfse...}
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Paragraph ended before \@xdblarg was complete
        at \par
     from \titleformat{\section}{\centering\color{NavyBlue}\normalfont\large\bfse...
/tmp/downloads/tmp 6271/SAUNAS-III:33: error: [xcolor] Undefined color `NavyBlue'
        at ...ormat{\section}{\centering\color{NavyBlue}\normalfont\large\bfseries...
/tmp/downloads/tmp_6271/SAUNAS-III:33: error: Missing \begin{document}
        at ...ue}\normalfont\large\bfseries}{\thesection}{1em}{}
/tmp/downloads/tmp_6271/SAUNAS-III:34: error: Undefined control sequence
        at \titleformat{\subsection}{\centering\color{NavyBlue}\normalfont\large\i...
/tmp/downloads/tmp_6271/SAUNAS-III:33: warning: Overfull \hbox (35.4035pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III:34: error: Argument of \@xdblarg has an extra }
        at \par
     from \verb|\titleformat| \subsection| \color{NavyBlue} \normalfont \large \verb|\titleformat| \color{NavyBlue} \normalfont \large \color{NavyBlue} \normalfont \normalfont \color{NavyBlue} \normalfont \color{NavyBlue} \normalfont \color{NavyBlue} \normalfont \normalfont \color{NavyBlue} \normalfont \norm
/tmp/downloads/tmp 6271/SAUNAS-III: warning: extra '}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:34: error: Paragraph ended before \@xdblarg was complete
        at \par
     from \titleformat{\subsection}{\centering\color{NavyBlue}\normalfont\large\i...
/tmp/downloads/tmp_6271/SAUNAS-III:34: error: [xcolor] Undefined color `NavyBlue'
        at ...at{\subsection}{\centering\color{\NavyBlue}\normalfont\large\itshape}...
/tmp/downloads/tmp_6271/SAUNAS-III:34: error: Missing \begin{document}
        at ...}\normalfont\large\itshape}{\thesubsection}{1em}{}
/tmp/downloads/tmp_6271/SAUNAS-III:35: error: Undefined control sequence
        at \titleformat{\subsubsection}{\centering\color{NavyBlue}\normalfont\norm...
/tmp/downloads/tmp_6271/SAUNAS-III:34: warning: Overfull \hbox (44.5423pt too wide) (page 1)
from \titleformat{\subsubsection}{\centering\color{NavyBlue}\normalfont\norm...
/tmp/downloads/tmp_6271/SAUNAS-III: warning: extra `}' in log; file names may be wrong
/tmp/downloads/tmp_6271/SAUNAS-III:35: error: Paragraph ended before \@xdblarg was complete
        at \par
     from \verb|\titleformat| subsubsection| subsubsection| from \verb|\titleformat| subsubsection| subsubsection| from \verb|\titleformat| subsubsection| subsubsection| from \verb|\titleformat| subsubsection| subsubsection| from \verb|\titleformat| subsubsection| subsubsection| from \verb|\titleformat| subsubsection| subsubsect
/tmp/downloads/tmp_6271/SAUNAS-III:35: error: [xcolor] Undefined color `NavyBlue'
        at ...\subsubsection}{\centering\color{NavyBlue}\normalfont\normalsize}{\t...
/tmp/downloads/tmp_6271/SAUNAS-III:35: error: Missing \begin{document}
        at ...}\normalfont\normalsize}{\thesubsubsection}{1em}{}
/tmp/downloads/tmp_6271/SAUNAS-III:35: warning: Overfull \hbox (53.68109pt too wide) (page 1)
/tmp/downloads/tmp_6271/SAUNAS-III: warning: Label(s) may have changed. Rerun to get cross-references right
There were errors; /tmp/storage/compilation_6176/output.pdf not updated
```