```
pdflatex -interaction nonstopmode -recorder -output-directory latex.out '/tmp/downloads/tmp_4853/SAUNAS-III Galaxy Scaling Relations of X-
ray Diffuse Emission.tex'
CORE-AAS/aastex631.cls: warning: You have requested document class `CORE-AAS/aastex631',
CORE-AAS/FUnewCommands.sty:48: error: Missing \begin{document}
   at \mbox{newcommand}\noDollarlcon}[4][-0.3][0.4mm][0.2][0.15]{{\raisebox}$\#1\nor..}
CORE-AAS/FUnewCommands.sty:48: error: Illegal parameter number in definition of \reserved@a
   at 1
  from ...2][0.15]{{\raisebox{#1\normalbaselineskip}[0pt][0pt]{\begin{tikzpict...
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:48: error: Illegal parameter number in definition of \reserved@b
   at 1
  from ...2][0.15]{\raisebox{#1\normalbaselineskip}[0pt][0pt]{\begin{tikzpict...
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:48: error: Illegal parameter number in definition of \reserved@a
  from ...15]{{\raisebox{#1\normalbaselineskip}[0pt][0pt]{\begin{tikzpicture}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:48: error: Illegal parameter number in definition of \reserved@b
  from ...15]{{\raisebox{#1\normalbaselineskip}[0pt][0pt]{\begin{tikzpicture}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: Environment tikzpicture undefined
   at \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: Undefined control sequence
   at \begin \tikzpicture\ \draw [fill=white,draw=red,line width=##2] (...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...w [fill=white,draw=red,line width=##2] (0,0) circle[radius=##3...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...ne width=##2] (0,0) circle[radius=##3]; \draw [line width=##2,...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: Undefined control sequence
   at ...#2] (0,0) circle[radius=##3]; \draw [line width=##2,red] node[...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...le[radius=##3]; \draw [line width=##2,red] node[midway,black]{...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: Undefined control sequence
   at ...2,red] node[midway,black]{\faDollar } (##4,##4) -- (-##4,-##4)...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...] node[midway,black]{\faDollar } (##4,##4) -- (-##4,-##4); \dr...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...de[midway,black]{\faDollar } (##4,##4) -- (-##4,-##4); \draw [...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty.52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...black]{\faDollar } (##4,##4) -- (-##4,-##4); \draw [line width...
  from \end{tikzpicture}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
```

```
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...]{\faDollar } (##4,##4) -- (-##4,-##4); \draw [line width=##2,...
  from \end{tikzpicture}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: Undefined control sequence
   at ...r } (##4,##4) -- (-##4,-##4); \draw [line width=##2,red] (##4,...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...-- (-##4,-##4); \draw [line width=##2,red] (##4,##4) -- (-##4,...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...##4); \draw [line width=##2,red] (##4,##4) -- (-##4,-##4); \en...
  from \end{tikzpicture}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode at ...; \draw [line width=##2,red] (##4,##4) -- (-##4,-##4); \end {t...
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty.52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...ine width=##2,red] (##4,##4) -- (-##4,-##4); \end {tikzpicture}
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in restricted horizontal mode
   at ...idth=##2,red] (##4,##4) -- (-##4,-##4); \end {tikzpicture}
  from \end{tikzpicture}}}
CORE-AAS/FUnewCommands.sty: warning: extra '}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: \begin{document} ended by \end{tikzpicture}
   at \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: Missing number, treated as zero
   at ##
                ۸
        \end{tikzpicture}}}}
  from
CORE-AAS/FUnewCommands.sty:52: error: Illegal unit of measure (pt inserted)
   at ##
        \end{tikzpicture}}}}
  from
CORE-AAS/FUnewCommands.sty:52: error: You can't use `macro parameter character #' in horizontal mode
   at ##
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty: warning: extra `}' in log; file names may be wrong
CORE-AAS/FUnewCommands.sty:52: error: Missing number, treated as zero
   at \relax
                ٨
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:52: error: Illegal unit of measure (pt inserted)
   at \relax
  from \end{tikzpicture}}}}
CORE-AAS/FUnewCommands.sty:48: warning: Overfull \hbox (863.1824pt too wide) (page 1)
CORE-AAS/FUnewCommands.sty:55: error: Undefined control sequence
   at \newfloatcommand{capbtabbox}{table}[][\FBwidth]
CORE-AAS/FUnewCommands.sty:55: error: Missing \begin{document}
   at \newfloatcommand{capbtabbox}{table}[][\FBwidth]
CORE-AAS/FUnewCommands.sty:55: error: Undefined control sequence
   at ...floatcommand{capbtabbox}{table}[][\FBwidth]
CORE-AAS/FUnewCommands.sty:55: warning: Overfull \hbox (106.88193pt too wide) (page 1)
/tmp/downloads/tmp_4853/SAUNAS-III:19: warning: Overfull \hbox (15.35526pt too wide) (page 1)
/tmp/downloads/tmp_4853/SAUNAS-III: warning: Label(s) may have changed. Rerun to get cross-references right
There were errors; /tmp/storage/compilation_4777/output.pdf not updated
```