

# Template paper

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**Abstract.** This is an abstract.

**Keywords.** Key1, Key2, Key3, Key4

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## 1. Introduction

The first section is always introduction. Further information on the style if file `iauguide.pdf`.

## 2. Next section

In addition to all the standard  $\text{\LaTeX}$  design elements, the IAU style includes the following feature:

- Extended commands for specifying a short version of the title and author(s) for the running headlines.

Once you have used this additional facility in your document, do not process it with a standard  $\text{\LaTeX}$  style file.

### 2.1. Lists

The IAU style provides the three standard list environments.

- Bulleted lists, created using the `itemize` environment.
- Numbered lists, created using the `enumerate` environment.
- Labelled lists, created using the `description` environment.

### 2.2. Footnotes

The IAU journal style uses superior numbers for footnote references.<sup>†</sup>

## 3. Tables

The `figure` and `table` environments are implemented as described in the  $\text{\LaTeX}$  Manual to provide consecutively numbered floating inserts for illustrations and tables respectively. The standard inserts and their captions are formatted centred. Line breaks in captions can be inserted as required using `\`.

The IAU style file will cope with most positioning of your tables and you should not normally use the optional positional qualifiers on the `table` environment which would override these decisions. Normal journal style sets the table caption first, followed by a double rule, the table body and a double rule at the bottom. Single rules and spanner rules (`\cline`) can be used to separate headings from the columns. For example, Table 1 is produced using the following commands:

```
\begin{table}[h!]
```

<sup>†</sup> This shows how a footnote is typeset.

```
\centering
\caption{Results of Overloading for 3 Experimental Setups}\label{sample-table}
{\tablefont\begin{tabular}{@{\extracolsep{\fill}}lcrrrrr}
\midrule
Program& Expt.&
CPU\footnote{Seconds of elapsed time on an unloaded Sun 3/50.}&
RelCPU\footnote{CPU Time relative to experiment (a).}&
GC& Mem\footnote{Bytes of heap used over the duration of the program.}&
RelMem\footnote{Memory usage relative to experient (a).}\&
\midrule
8 Queens& (a)& 2 88& 1 00& 6& 1 7M& 1 00\\
& (b)& 32 51& 11 29& 193& 48 9M& 28 76\\
& (c)& 7 90& 2 74& 42& 11 3M& 6 65\\
\multirow{3}{4}{*}[3pt]{Primes}& (a)& 4 89& 1 00& 19& 5 3M& 1 00\\
& (b)& 47 54& 9 72& 204& 54 5M& 10 28\\
& (c)& 10 08& 2 06& 47& 13 0M& 2 45\\
Nfib& (a)& 21 65& 1 00& 161& 40 4M& 1 00\\
& (b)& 221 65& 10 24& 1382& 349 0M& 8 64\\
& (c)& 21 30& 0 98& 161& 42 0M& 1 03\\
KWIC& (a)& 7 07& 1 00& 15& 6 3M& 1 00\\
& (b)& 34 55& 4 89& 109& 47 8M& 7 59\\
& (c)& 31 62& 4 47& 53& 45 0M& 7 14\\
\midrule
\end{tabular}}
\tabnote{\textit{Notes}: [1] 13. Commission des 'eclipses solaires [2] 13. Commission Eclipses of Sun}
\end{table}
```

Notice the use of the macro to obtain the centered decimal points, inside the body of the table.

**Table 1.** Results of Overloading for 3 Experimental Setups

Program	Expt.	CPU	RelCPU	GC	Mem	RelMem
8 Queens	(a)	2 88	1 00	6	1 7M	1 00
	(b)	32 51	11 29	193	48 9M	28 76
	(c)	7 90	2 74	42	11 3M	6 65
Primes	(a)	4 89	1 00	19	5 3M	1 00
	(b)	47 54	9 72	204	54 5M	10 28
	(c)	10 08	2 06	47	13 0M	2 45
Nfib	(a)	21 65	1 00	161	40 4M	1 00
	(b)	221 65	10 24	1382	349 0M	8 64
	(c)	21 30	0 98	161	42 0M	1 03
KWIC	(a)	7 07	1 00	15	6 3M	1 00
	(b)	34 55	4 89	109	47 8M	7 59
	(c)	31 62	4 47	53	45 0M	7 14

Notes: [1] 13. Commission des éclipsees solaires [2] 13. Commission Eclipses of Sun

The tabular environment should be used to produce ruled tables; it has been modified for the IAU style in the following ways:

- (1) Additional vertical space is inserted above and below a horizontal rule (produced by \hline);
- (2) Tables are centred, and span the full width of the page; that is, they are similar to the tables that would be produced by \begin{minipage}{\textwidth}.

Because of this reformatting, vertical rules should not be used; furthermore, commands to redefine quantities such as \arraystretch should be omitted. If the old tabular facilities are needed, there is a new environment, oldtabular, which has none of the reformatting; it should be used in exactly the same way.

**Figure 1.** An example figure with space for artwork.

### 3.1. *Illustrations (or figures)*

The IAU style will cope with most positioning of your illustrations and you should not normally use the optional positional qualifiers on the `figure` environment which would override these decisions. Figure captions should be below the figure itself, therefore the `\caption` command should appear after the figure or space left for an illustration.

Figure 1 shows an example onw working with LaTeX code to load art files. `\includegraphics` commnad is to load art files `scale` option used in `\includegraphics` is to reduce the art. EPS format will be compiled using LaTeX. PNG, PDF and JPG format art files are loaded in the same command but the TeX file should be compiled using PDFLaTeX:

```
\begin{figure}
  \includegraphics[scale=.4]{sample.eps}
  \caption{An example figure with space for artwork.}
  \label{sample-figure}
\end{figure}
```

## References

- Bouvier, J. 2013, EAS Publications Series, 143  
Collier Cameron, A. 1999, Solar and Stellar Activity: Similarities and Differences, 146  
Donati, J.-F., Brown, S. F., Semel, M., *et. al* 1992, A&A, 265, 682