Preparing a REVTEX4-1 manuscript for the OSA journals JOSA A, JOSA B, Optics Letters, and Applied Optics

Joe Richardson,[1] Chris Videll,[2,*] and Jennifer Mayfield[2]

[1]*Peer Review, Optical Society of America, 2010 Massachusetts Avenue, NW, Washington, D.C. 20036, USA*

[2]*Publishing Production Services, Optical Society of America, 2010 Massachusetts Avenue, NW, Washington, D.C. 20036, USA*

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This template is provided to demonstrate options for using REVTEX4-1 in preparing manuscripts for submission to JOSA A, JOSA B, *Optics Letters*, and *Applied Optics*. REVTEX4-1 support for OSA journals was added September 2012 as a BETA and updated in April 2013. Users should obtain the REVTEX4-1 package (`https://authors.aps.org/revtex4/`) and the OSA REVTEX4-1 style files (on the Author page of any OSA journal site). Authors in need of a length estimate because of page charge concerns can use the OSA REVTEX4-1 template. The template will not yield an exact estimate but should provide a good approximation of the length of the page proof. Figures, large tables, and complex display math may still affect the estimate. Note that the two-column format is acceptable for submission and will meet the needs of OSA peer review and production.

OCIS codes: (140.3490) Lasers, distributed-feedback; (060.2420) Fibers, polarization-maintaining; (060.3735) Fiber Bragg gratings; (060.2370) Fiber optics sensors.

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1. Introduction

The OSA REVTEX4-1 template is designed to assist authors with creating a two-column manuscript that can be submitted to JOSA A, JOSA B, *Optics Letters*, and *Applied Optics* (separate templates are available for other OSA journals, which have not yet migrated to REVTEX).

- See the "REVTeX 4.1 Author's Guide" for an overview of REVTEX4-1's features [1].
- See the "OSA Author Style Guide" for points on OSA journal style [2], such as use of OCIS codes.

2. Preparing a REVTeX Manuscript for Submission to an OSA Journal

1. ***Optics Letters* authors**: Be aware of two major changes for OL papers. Authors now have a firm **four**-page limit for their papers, and submitted papers must contain a **fifth** informational page, with complete references.

2. **Preamble** Use the following preamble to invoke REVTEX4.1 for OSA journals. Use the "10 pt" option for JOSA A, JOSA B, and OL; use the "11 pt" option for *Applied Optics*:

```
\documentclass[osajnl,twocolumn,showpacs,
superscriptaddress,10pt]{revtex4-1}
```

3. **Citations** in REVTEX use the `natbib` package. The `osajnl4-1.rtx` package will enforce appropriate style for citations callouts: "... in this study [1,2]." Use the `\cite{}` command for all callouts.

4. **BibTEX** may be used to create a file containing the references, whose contents (i.e., contents of .bbl file) can then be pasted into the bibliography section of the .tex file. References must be contained within the .tex file, not a separate BibTEX file.

5. **Compress** your .tex manuscript file and all figures (which should be in EPS format) in a TAR or TAR-GZIP package. All files must be referenced at the root level (e.g., file figure-1.eps, not /myfigs/figure-1.eps).

6. **Figures and Tables** It is *not* necessary to place figures and tables at the back of the manuscript. Figures and tables should be sized for display as you wish them to appear in the final article. Do not include a separate listing figure captions and table titles.

* Corresponding author: xyx@osa.org

3. Sample Equation, Figure, and Table

3.A. Equation

Sample equation. When a two-column equation is needed, use the `\begin{widetext}\end{widetext}` environment. See the "REVTeX 4.1 Author's Guide" [1].

$$\Delta x \Delta p \approx h. \tag{1}$$

3.B. Figure

Sample figure environment. Use the `graphicsx` package. For two-column figures, use an asterisk in the figure environment: `\begin{figure*}\end{figure*}`.

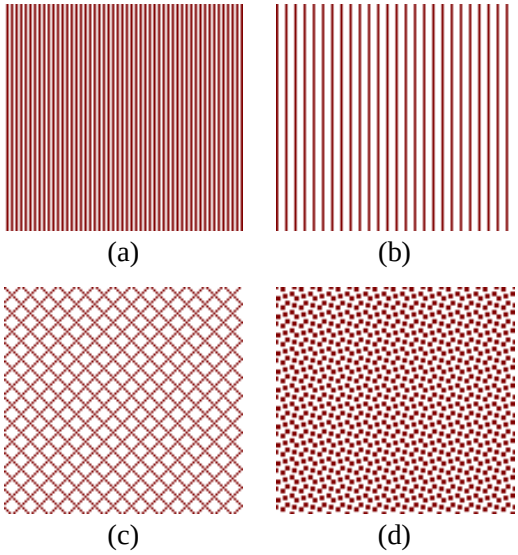

Fig. 1. One-column figure set with the figure environment.

3.C. Table

Sample table environment. For long tables, see the "REVTeX 4.1 Author's Guide" [1].

Table 1. A simple table

A	B	C	D	E	F	G	H	I
1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27

References

[1] `https://authors.aps.org/revtex4/`.
[2] `http://www.opticsinfobase.org/submit/style/jrnls_style.cfm`.