Title of primary manuscript: supplemental document

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1. INTRODUCTION

This template is designed to assist with creating a supplemental document to accompany an article in an Optica Publishing Group journal. This template contains example content to help you create your document, and you may use this template as a visual guide. The sections below show examples of different components and styles.

2. NUMBERING ITEMS IN THE SUPPLEMENTARY DOCUMENT

The supplementary materials document may contain additional figures, tables, equations, etc. Such items should be numbered, with an uppercase "S" to identify them as supplementary. For example, number the first figure in the supplementary document "Fig. S1"; the first table "Table S1"; etc.

This template has been designed to automatically format these components with this styling, but we include the naming convention here for reference.

Naming Convention for Countable Items

Algorithm S1
Equation (S1)
Figure S1
Media S1
Table S1

3. FIGURES AND TABLES

Figures and Tables should be labeled and referenced in the standard way using the `\label{}` and `\ref{}` commands.

A. Sample Figure

Figure S1 shows an example figure.

B. Sample Table

Table S1 shows an example table.

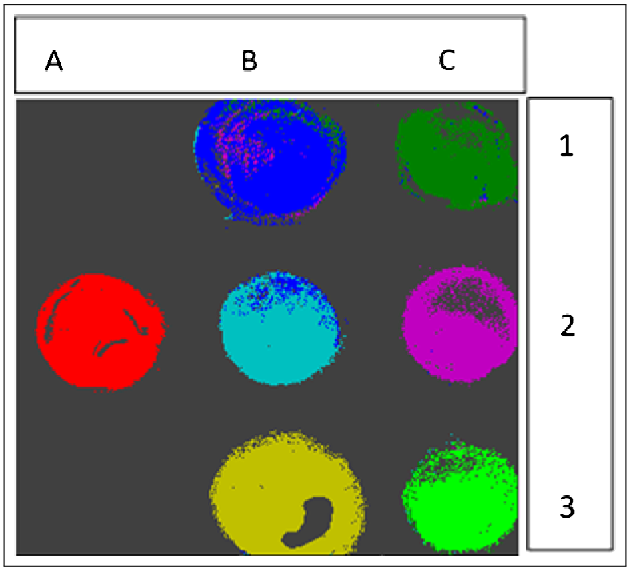

Fig. S1. False-color image, where each pixel is assigned to one of seven reference spectra.

Table S1. Shape Functions for Quadratic Line Elements

Local Node	$\{N\}_m$	$\{\Phi_i\}_m$ $(i = x, y, z)$
$m = 1$	$L_1(2L_1 - 1)$	Φ_{i1}
$m = 2$	$L_2(2L_2 - 1)$	Φ_{i2}
$m = 3$	$L_3 = 4L_1L_2$	Φ_{i3}

4. SAMPLE EQUATION

Let $X_1, X_2, \ldots, X_n$ be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n}\sum_{i}^{n} X_i \tag{S1}$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

5. SAMPLE ALGORITHM

Algorithms can be included using the commands as shown in algorithm S1.

Algorithm S1. Euclid's algorithm

```
1: procedure EUCLID(a, b)                    ▷ The g.c.d. of a and b
2:     r ← a mod b
3:     while r ≠ 0 do                        ▷ We have the answer if r is 0
4:         a ← b
5:         b ← r
6:         r ← a mod b
7:     return b                              ▷ The gcd is b
```

MEDIA

The supplemental document may contain linked objects such as video, 2D, 3D, and machine-readable data files. Please see the Author Guidelines for Supplementary Materials for more information. Such files should be cited in the supplementary document as in the primary document but using the naming convention described above.

REFERENCES

The supplementary materials document may contain a reference list. The reference list should follow our citation style and should be checked carefully, since staff will not be performing any copyediting. You may add citations manually or use BibTeX. See [1].

Citations that are relevant to the primary manuscript and the supplementary document may be included in both places.

REFERENCES

1. Y. Zhang, S. Qiao, L. Sun, *et al.*, "Photoinduced active terahertz metamaterials with nanostructured vanadium dioxide film deposited by sol-gel method," Opt. Express **22**, 11070–11078 (2014).