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1. INTRODUCTION

11

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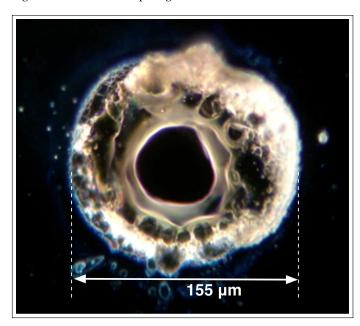


Fig. 1. Dark-field image of a point absorber.

B. Sample Table

Table 1 shows an example table.

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

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i$$
 (1)

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Table 1. 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}

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 1.

Algorithm 1. Euclids algorithm

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1: procedure EUCLID(<i>a</i> , <i>b</i>)		⊳ The g.c.d. of a and b
2:	$r \leftarrow a \bmod b$	Č
3:	while $r \neq 0$ do	\triangleright We have the answer if r is 0
4:	$a \leftarrow b$	
5:	$b \leftarrow r$	
6:	$r \leftarrow a \bmod b$	
7:	return b	⊳ The gcd is b

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B. Sample Dataset Citation

1. M. Partridge, "Spectra evolution during coating," figshare (2014), http://dx.doi.org/10.6084/m9.figshare.1004612.

C. Sample Code Citation

 C. Rivers, "Epipy: Python tools for epidemiology," Figshare (2014) [retrieved 13 May 2015], http://dx.doi.org/10.6084/m9.figshare.1005064.

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ing/Acknowledgment/Disclosures/Data Availability State- 111

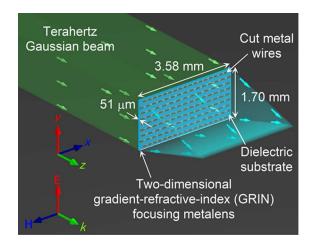


Fig. 2. Terahertz focusing metalens.

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REFERENCES

- Y. Zhang, S. Qiao, L. Sun, Q. W. Shi, W. Huang, L. Li, and Z. Yang, Opt. Express 22, 11070 (2014).
- 2. Optica Publishing Group, "Optica," https://opg.optica.org.
- P. Forster, V. Ramaswamy, P. Artaxo, T. Bernsten, R. Betts, D. Fa-147 hey, J. Haywood, J. Lean, D. Lowe, G. Myhre, J. Nganga, R. Prinn, 148 G. Raga, M. Schulz, and R. V. Dorland, "Changes in atmospheric con-149 situents and in radiative forcing," in Climate Change 2007: The Physical Science Basis. Contribution of Working Group 1 to the Fourth assesment report of Intergovernmental Panel on Climate Change, 152 S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, 153 M. Tignor, and H. L. Miler, eds. (Cambridge University Press, 2007).
- 155 R. McKay, "X-ray crystallography," Ph.D. thesis, Princeton University 156
- V. S. C. Manga Rao and S. Hughes, Phys. Rev. B 75 (2007). 5. 157

FULL REFERENCES

160

161

Y. Zhang, S. Qiao, L. Sun, Q. W. Shi, W. Huang, L. Li, and Z. Yang, 159 "Photoindehehuced active terahertz metamaterials with nanostructured vanadium dioxide film deposited by sol-gel method," Opt. Express 22, 11070-11078 (2014). 162

- 2. Optica Publishing Group, "Optica," https://opg.optica.org. 163
- P. Forster, V. Ramaswamy, P. Artaxo, T. Bernsten, R. Betts, D. Fa-3. 164 hey, J. Haywood, J. Lean, D. Lowe, G. Myhre, J. Nganga, R. Prinn, 165 G. Raga, M. Schulz, and R. V. Dorland, "Changes in atmospheric con-166 situents and in radiative forcing," in Climate Change 2007: The Phys-167 ical Science Basis. Contribution of Working Group 1 to the Fourth 168 assesment report of Intergovernmental Panel on Climate Change, 169 S. Solomon, D. Qin, M. Manning, Z. Chen, M. Marquis, K. B. Averyt, 170 M. Tignor, and H. L. Miler, eds. (Cambridge University Press, 2007). 171
- R. McKay, "X-ray crystallography," Ph.D. thesis, Princeton University 172 173
- 5. V. S. C. Manga Rao and S. Hughes, "Single quantum-dot Purcell factor 174 and β factor in a photonic crystal waveguide," Phys. Rev. B **75** (2007). 175