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# Spherical enclosed charge 2

*R*2 < *r*

0 < *r* < *R*1

*R*1 < *r* < *R*2

*q*enc = 0

*q*enc < *Q*

*q*enc = *Q*

# E due λ with some fors

*h*

*λ*, *L*



*o*

*x*

*y*

*s*

*x* = –*s*

*x* = –*s* + *L*

*x* = 0

*h*

*λ*, *L*



*o*

*x*

*y*

*s*

*x* = *x*left

*x* = *x*left + *L*

*x* = *x*left + *s*

(a)

(b)

(c)

(d)

*h*

*λ*, *L*



*o*

*x*

*y*

*L*1

*x* = –*L*1

*x* = *L2*

*x* = 0

*L*2

*θ*1

*θ*2

*h*

*λ*, *L*



*o*

*x*

*y*

*αL*

*x* = –*αL*

*x* = *βL*

*x* = 0

*βL*

*α* + *β* = 1

# Enc charges Gauss’s surfaces

*q*1 = +Q

*q*2 = –2Q

*q*3 = 2Q

*q*4 = –Q

*q*5 = 0

*s*1

*s*2

*s*3

*s*4

# Cell cs and bcc

SC

BCC

# Notes and version

* 130% (Jekyll + MathJax), save as 0000x first then save as back to 0000, remove 0000x then, x = i
* 20210209