How many boundary conditions (on the potential V) do you use to find V inside the spherical plastic shell?





Read Physics GRE Study Sessions

- Friday, October 19
- 3-4 pm BPS 1400
- Physics graduate students will explain the contents of the exam, provide study and test taking strategies, go over practice problems, and answer any specific questions you may have.

GRE.

- In particular, we will go over problems from this practice exam: https://tinyurl.com/y99dbgbm
- Next session
 - Tuesday 10/23 3-4 pm BPS 1400
- Contact Alison Peisker with any questions (peiskera@msu.edu)

$$V(r,\theta) = \sum_{l=0}^{\infty} \left(A_l r^l + \frac{B_l}{r^{l+1}} \right) P_l(\cos\theta)$$

Suppose V on a spherical shell is:

$$V(R,\theta) = V_0 \left(1 + \cos^2\theta\right)$$

Which terms do you expect to appear when finding V(inside)?

A. Many A_l terms (but no B_l 's) B. Many B_l terms (but no A_l 's) C. Just A_0 and A_2 D. Just B_0 and B_2 E. Something else!

$$V(r,\theta) = \sum_{l=0}^{\infty} \left(A_l r^l + \frac{B_l}{r^{l+1}} \right) P_l(\cos\theta)$$

Suppose V on a spherical shell is:

$$V(R,\theta) = V_0 \left(1 + \cos^2\theta\right)$$

Which terms do you expect to appear when finding V(outside)?

A. Many A_l terms (but no B_l 's) B. Many B_l terms (but no A_l 's) C. Just A_0 and A_2 D. Just B_0 and B_2 E. Something else!