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New

Ruth Chabay
PY 208L, section 000, Spring
2007Instructor: Prabha Ramakrishnan
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S2007** (Lab)**About this Assignment**Due: **Tuesday, May 8, 2007 08:00 EDT** **Description**Current Score: **0 out of 50**[Question Score](#)[Submission Options](#)

VPython program to compute and display the electric field of a uniformly charged ring.

Instructions

Instructions are provided in this assignment.

When you turn in your program, WebAssign will display full credit, but there may be deductions later when a grader inspects your work.

Of the 45 points for the last part of this assignment, 20 points are for the program working properly, and 25 points are for attendance and working on whiteboard problems in the lab.

--/50 points | 0/5 submissions | No Response | [Show Details](#)[Notes](#)

In lab you wrote a computer program to calculate and display the electric field due to a uniformly charged ring. Here are the [instructions](#). Your program should do the following:

Display the specified cyan ring.

Calculate the electric field and display it as an arrow on the grid of locations specified in the instructions.

Scale the arrows so that no arrow overlaps another arrow, but the arrows should be clearly visible.

With the ring divided into 20 slices, what is the electric field at location $\langle 0.06, 0.06, 0 \rangle$ m?

$\vec{E} = \langle \text{[]}, \text{[]}, 0 \rangle$ N/C

Turn in your program. Run the program one more time before submitting it, to make sure it runs correctly. Then upload your program, which will be graded on the basis of whether it runs correctly and produces a correct display. **You must include the standard ".py" extension on the file name.** For example, your file name could be "dipolefield.py".

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