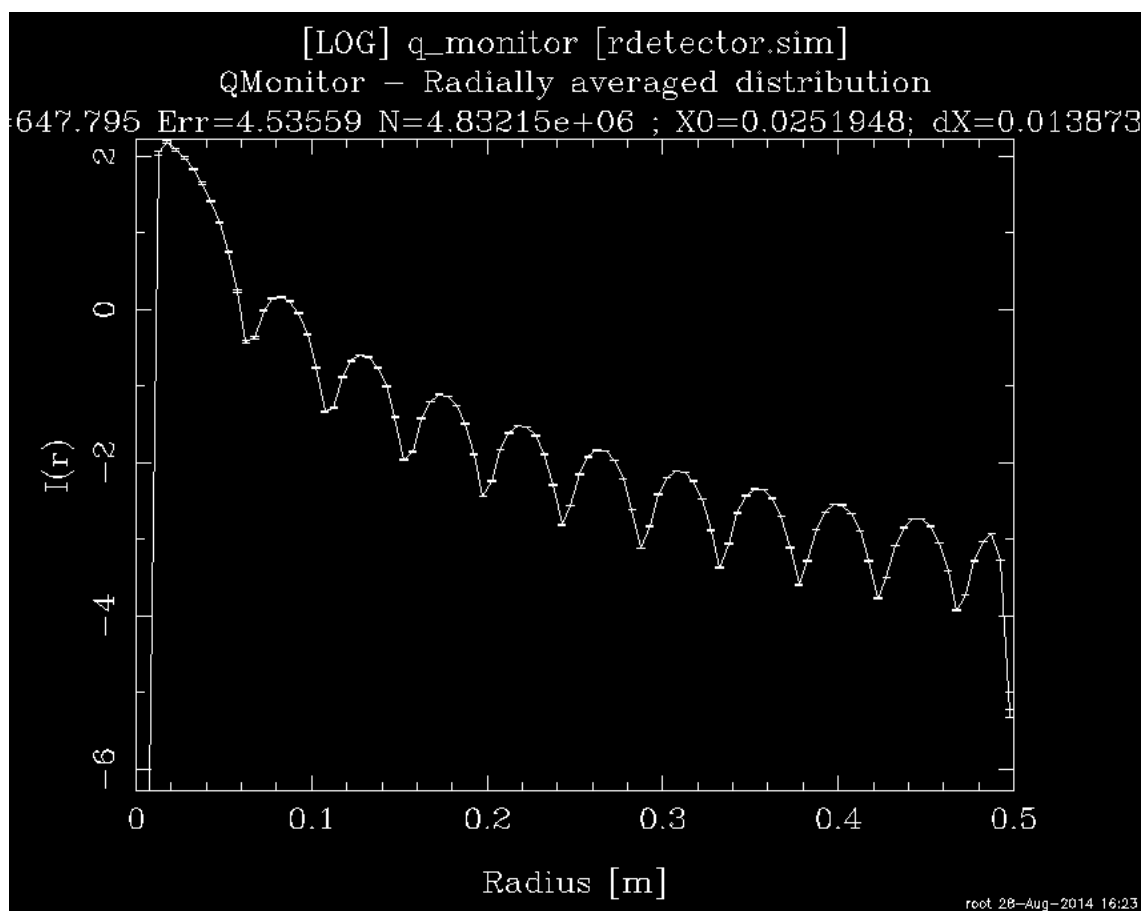


## Question 1

Tries remaining: 3

Marked out of 1.00



The image shows a logarithmic plot of the intensity as a function of radius for the default configuration of the simulation with the *following changes*:

The samples are spheres with a radius of 200 Å (no uncertainty) and the uncertainty on the neutron wave length is set to  $10^{-3}$  Å (very small).

Run the virtual experiment to find out, which of the following statements about the  $I(r)$  graph are true.

Select one or more:

- ☐ a. The  $I(r)$  graph shows the measured intensity as a function of the distance from the center of the detector to the point, where the neutron was detected.
- ☐ b. The  $I(r)$  graph shows the measured intensity as a function of the distance from the sample to the detector. This is the reason for the change in simulation pattern, when the detector is moved.
- ☐ c. The  $I(r)$  graph shows the measured intensity as a function of the radius of the spheres. The  $I(r)$ -graph therefore allows us to relate the dimensions of the sample to the measured intensity.

Check

Start again

Save

Fill in correct responses

Submit and finish

Close preview

[Technical information](#) ? ▶

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[Collapse all](#)

[Attempt options](#)

How questions behave ?

Interactive with multiple tries

Marked out of

1

Start again with these options

### Display options

Whether correct

Not shown

Marks

Show max mark only

Decimal places in grades

2

Specific feedback

Shown

General feedback

Shown

Right answer

Not shown

Response history

Not shown

Update display options