

6. Michelson Morley experiment was set up to determine what? (5 points)

changes in the speed of light with respect to the ether.

Who discovered the photoelectric effect?..... Hertz.....

Who introduced the quantum theory?..... Planck.....

Who discovered X-rays?..... Roentgen.....

Planck's blackbody radiation formula reduces to Wien's law... at short wavelengths and... Rayleigh... law... at large wavelengths.

Does the stopping potential increase, decrease or remain the same when the intensity of light incident on a metal is increased?.... Remains the same

The value of the Planck constant h was calculated with two different methods and was found to be the same. What are these two methods?

- Planck fitted the black body radiation distribution using h as the fitting parameter.
 - Millikan determined h from the photoelectric measurement data.
- Both values agree.