# physiplot

doppler efffect

interferometer

solar

# doppler effect

input

| time | freequenccy |
| --- | --- |
| | |

output

| time | velocity |
| --- | --- |
| | |

freequency vs time

velocity vs time

output

| time | freequenccy |
| --- | --- |
| | |

# michalson infrared

input

| Trial No | No. of Fringes (N) | Micrometer reading | | Distance Moved (d) mm |
|---|---|---|---|---|
| | | Initial | Final | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

output

| Trial No | No. of Fringes (N) | Micrometer reading | | Distance Moved (d) mm | Calibration Constant $\Delta = (\lambda N / 2d)$ |
|---|---|---|---|---|---|
| | | Initial | Final | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

]average value

Average calibration constant, $\Delta$ =

# Wave Length of Laser Beam

input

| Trial No | No. of Fringes Counted, (N) | Micrometer reading | | Distance Moved (d) mm |
|---|---|---|---|---|
| | | Initial(mm) | Final(mm) | |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |

output

| Trial No | No. of Fringes Counted, (N) | Micrometer reading | | Distance Moved (d) mm | Wavelength $\lambda = (2d / N)\Delta$ |
|---|---|---|---|---|---|
| | | Initial(mm) | Final(mm) | | |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| 5. | | | | | |

Average value of wavelength, $\lambda$ = ..... nm

## Refractive Index of Transparent material

input

| Trial No | No. of Fringes Moved (N) | Angle rotated, θ | | Mean θ | |
|---|---|---|---|---|---|
| | | Left | Right | | |
| | | | | | |
| | | | | | |
| | | | | | |

output

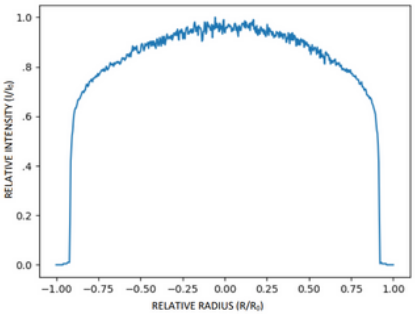
| Trial No | No. of Fringes Moved (N) | Angle rotated, θ | | Mean θ | Refractive index n |
|---|---|---|---|---|---|
| | | Left | Right | | |
| | | | | | |
| | | | | | |
| | | | | | |

Refractive index of Glass Slide n = .....

# solar

input image

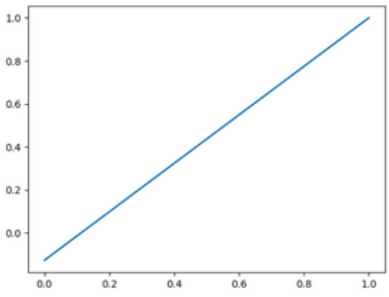
output




i max i min

alpha value beta value

Graph of Relative intensity and Cos theta




Graph of Relative Temperature (Y-axis) Vs Relative Radius (X-axis):