

Gunn Diode Oscillator Minutes

Mick Gaskill

2004-01-26 12:30

Attendance

- Fourth year students:
 - AJ Nelms
 - R Wan.
 - JM Higginbotham.
 - MP Gaskill.

Apologies

- RE Irwin.
- DP Headland.

UMIST Staff

- WS Truscott
- R Sloan

Approvals

- The minutes from the previous meeting were approved.

Old business

- Interim report discussed briefly with Dr.Truscott — some minor problems in report will give feedback before presentation — will be marking with Dr. Sloan on Wednesday.
- Ray from the workshop on D-Floor has started machining the first oscillator.
- No progress from e2v, known.

New Business

- (a) Discussion of progress against time plan, R.Wan has said this must change and is detailed in the interim report.
 - Possible areas for development is the power supply unit AJ Nelms suggested a possible design (1.5 A 0-8 V) but still requires four separate controls. R Wan can provide a solution for this later.
 - JM Higginbotham has been provided with the information for calculating the radial line transformer.
- (b) Discuss approach to presentation — each person will have five minutes to discuss their area of expertise.
 - Presentation similar to e2v presentation.
 - Questioned whether we still require the Gunn model from e2v.
 - Flow of the presentation will be of a top-down approach — design, simulate, build, test.
 - It was stressed not to go into much detail, as time is limited.
 - Slides should be prepared in Word then its easier to copy and paste into PowerPoint.

Proposed actions

JM Higginbotham Calculate the size of the radial line transformer/slides simulating.

AJ Nelms	Prepare slides on testing.
R Wan	Prepare slides on introduction.
MP Gaskill	Prepare slides on building.
RE Irwin	Have information ready for waveguide.
DP Headland	Have information ready for power combining/2nd harmonics.

Next meeting

Time Wednesday 28 January 2004, 10:00.

Place D floor coffee room.

Meeting adjourned, 14:00.