|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | | **Sample Name:** | | | | | **Operator:** | | | |
| **Program:** | | **Substrate Cooling:** | | | | | **Instrument check :** | | | |
| **Excimer** | **Laser cavity gas** | **Pressure** | | |  | | **Gas fill in** | | |  |
| **Cylinders** | **Arf pressure** | | |  | | **Voltage(KeV)** | | |  |
| **He pressure** | | |  | |  | | |  |
| **No. of pulses** |  | | | **Energy(mJ)** | |  | | |  |
| **Operation mode** |  | | | **Repetition rate(Hz)** | |  | | |  |
| **Focusing** |  | | | | | **Laser Wavelength/nm** | | |  |
| **Deposition** | **Substrate** | **Materials** |  | | | | **Temperature/oC** |  | | |
| **Size** |  | | | | **Rotation Speed/rpm** |  | | |
| **Target 1** | **Name** |  | | | | **Materials** |  | | |
| **Size** |  | | | | **Rotation Speed/rpm** |  | | |
| **Target 2** | **Name** |  | | | | **Materials** |  | | |
| **Size** |  | | | | **Rotation Speed/rpm** |  | | |
| **Target 3** | **Name** |  | | | | **Materials** |  | | |
| **Size** |  | | | | **Rotation Speed/rpm** |  | | |
| **Distance/mm** |  | | | | | | | | |
| **Vacuum Level/Torr** |  | | | | | | | | |
| **Atmosphere** | **Gas 1/flow rate** | |  | | **Pressure/mTorr** | | |  | |
| **Gas 2/flow rate** | |  | | **Pressure/mTorr** | | |  | |
| **Annealing time(hours)** |  | | **Cooling rate (oC/min)** | |  | | |  | |
| **Deposition Time** | **Duration:** | | | | **From: To:** | | | | |
| **Comments** | |  | | | | | | | | |

**The Nanosecond PLD Experiment (Lab- B45)**