

The setups for adaptive sampling and dual frequency comb spectroscopy have been finished in room 414 by Ichikawa and Hayashi. I learnt how to construct the optical setup and set the parameters for experiment preparation. Next week, I will do experiments related to the adaptive sampling and dual frequency comb spectroscopy.

Meanwhile, I need to consider the results of THz wavefront experiments. I have prepared the report for Emmanuel and will send it to him for discussion. I prepared a procedure using Igor for the easiness in preparing image with proper settings (axis, color bar, scale, etc.).

The screenshot displays the Igor Pro software interface with several windows open. At the top, the menu bar includes 'Igor Pro', 'File', 'Edit', 'Data', 'Analysis', 'Macros', 'Windows', 'Graph', 'Misc', and 'Help'. The system tray shows the date and time as 'Thu 8:23 PM'. The main workspace contains the following elements:

- Table1:layer_show**: A data table with columns 'RO CO LO' and 'layer_show' (0-3). The data is as follows:

Row	layer_show[[0]	layer_show[[1]	layer_show[[2]	layer_show[[3]
0	-7984	-346	-208	1
1	0	-434	-472	-441
2	0	-220	-536	-502
3	0	-207	-238	-250
4	0	-199	-590	-275
5	0	-354	-87	-132
6	0	-251	-262	-192
7	0	-306	-439	-475
8	192	-229	-334	-306
- Graph0:layer_show**: A 2D plot showing a circular wavefront pattern with a color scale from -100 to 100. The current layer is set to 191.
- Graph1:datasavedimage_a**: A 2D plot showing a similar circular wavefront pattern, representing a saved image frame by frame.
- Graph4:datasavedmovie_a**: A 2D plot showing a similar circular wavefront pattern, representing a saved video (Quick Time).
- Graph3:point1 vs tmp_point_full**: A line plot titled 'Temporal plot' showing a signal over 'Time delay / ps' from 0 to 60. The signal is near zero until approximately 45 ps, where it exhibits a sharp positive peak followed by a smaller negative peak.
- DataHandling**: A script window containing the following code:

```
pragma rtGlobals=1 // Use modern global access method.
newpath path1, "MacBook_Harsono:Users:Harsono:Documents:Documentation:experiment"
//define path for the first time, change according to the correct one

function saveframe(datasavedimage,a,b)
//save selected layers of 3D wave shown on Graph1 as frame per frame TIFF images:
//datasavedimage = 3D wave
//a = start layer, b = end layer

wave datasavedimage
variable a,b
variable i,j,k,aa,ii
string bb
nvar XPixel = XPixel
nvar YPixel = YPixel
```

At the bottom of the interface, there is a 'Stack Display' window with a red box around it, labeled 'Entering command for viewer operation (loading files, choosing files, etc.)'. The status bar at the very bottom shows coordinates: 'X: 119, Y: 125, Z: 17552, ΔX: , ΔY: , ΔZ: '.