

# Power Point Manual

Get On The  
BUS



BrainMaster  
Universe  
Simplified



“focus”  
level 2

# FOCUS

Level 2

- How can I modify the Focus Settings to change selected frequency bands?

# FOCUS

## Level 2

- The Level 1 Base Setting for the Focus Protocol included the electrode placement of C4 to train up lobeta (12-15Hz).
- The Theta inhibit band is set for 4-7Hz. Instead, let's change the frequency band for theta so that we are inhibiting 4-8Hz.
- Lets learn how to change the frequency band.



FIRST: It is so very simple to make changes and experiment with BrainAvatar Settings Files without concern because if something just doesn't seem to work as planned, you always can reload the original Settings File you downloaded to your system.

Consider manipulating the settings in your working folder as a sandbox. You can always replace it with the original setting file.



# FOCUS

Level 2

## Lets Begin

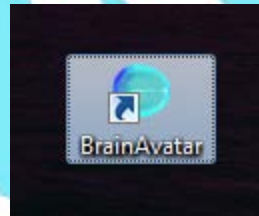
- Make Sure the Atlantis Amplifier is plugged in.



# FOCUS

## Level 2

- Open BrainAvatar by double-clicking the BrainAvatar Icon

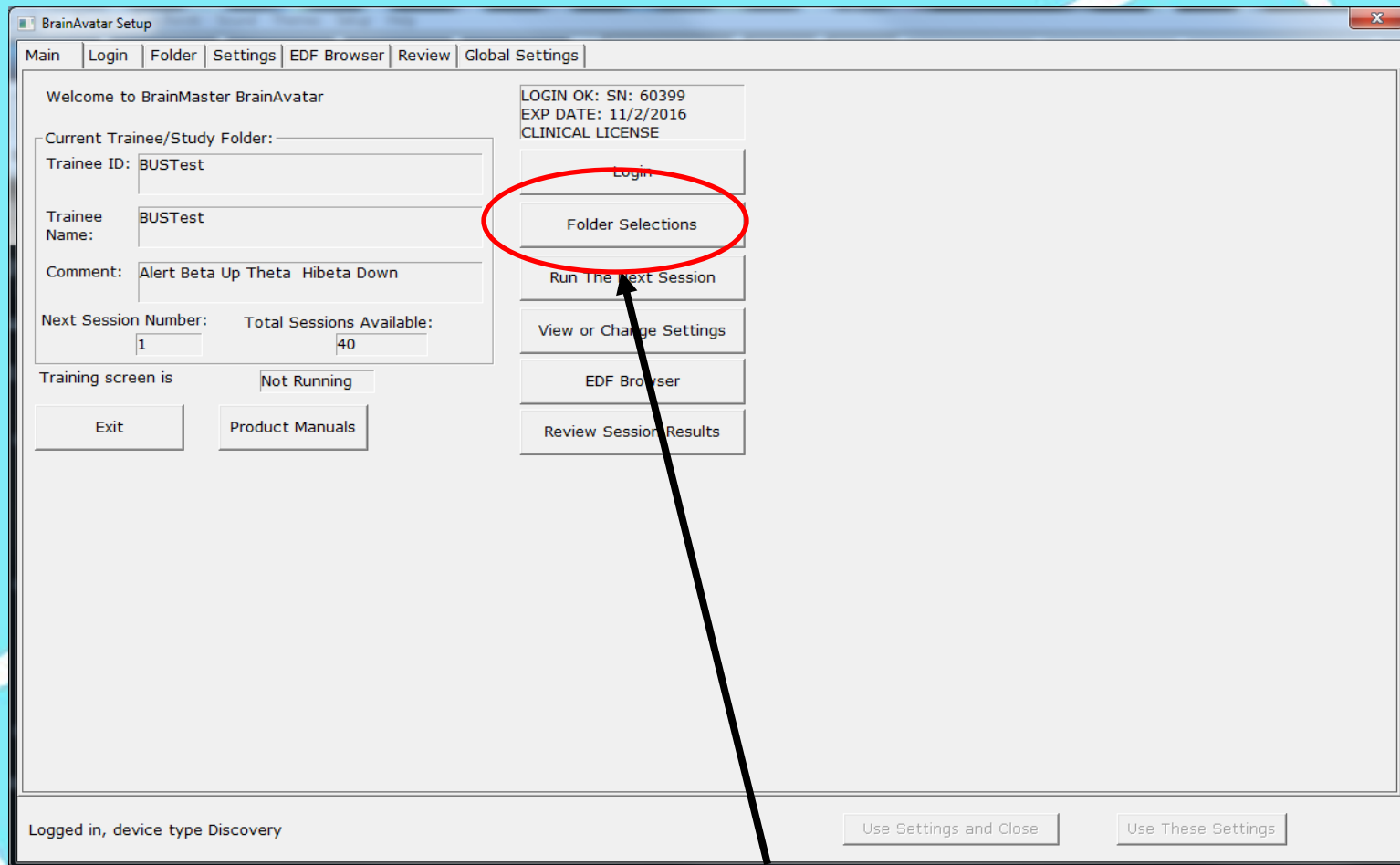




- The Select Folder Screen will appear.
- By now you should know how to either create a new client folder or recall an existing client folder.
- For the purposes of this exercise let's open and utilize the "BUSTest" Folder which may already be resident on your system. If not, then create one.



- The BrainAvatar Setup Window will Appear



- Click "Folder Selections".

- The Select Folder Screen will appear.

BrainAvatar Setup

Main | Login | Folder | Settings | EDF Browser | Review | Global Settings

Select Folder | Create Folder | Folder Notes | Session Librarian | Edit Folder Info.

Select Folder: (you may double-click to select)

| Study Name | Birth Date | Sess | Max | Comment            | Technician | Physician | Trainee Name | Created  | Modified |
|------------|------------|------|-----|--------------------|------------|-----------|--------------|----------|----------|
| ..         |            |      |     |                    |            |           |              |          |          |
| BUSTest    | 2000-7-4   | 40   |     | Alert Beta Up T... | EEG tech   |           | BUSTest      | 2016-8-3 | 2016-8-3 |

Study Name (Trainee ID):  
BroJad4chPZOKP3P4O1O2

Trainee Name:  
BroJad4chPZOKP3P4O1O2

Comment:  
comment

Sessions Used: 4  
Max Sessions: 40

Session Librarian

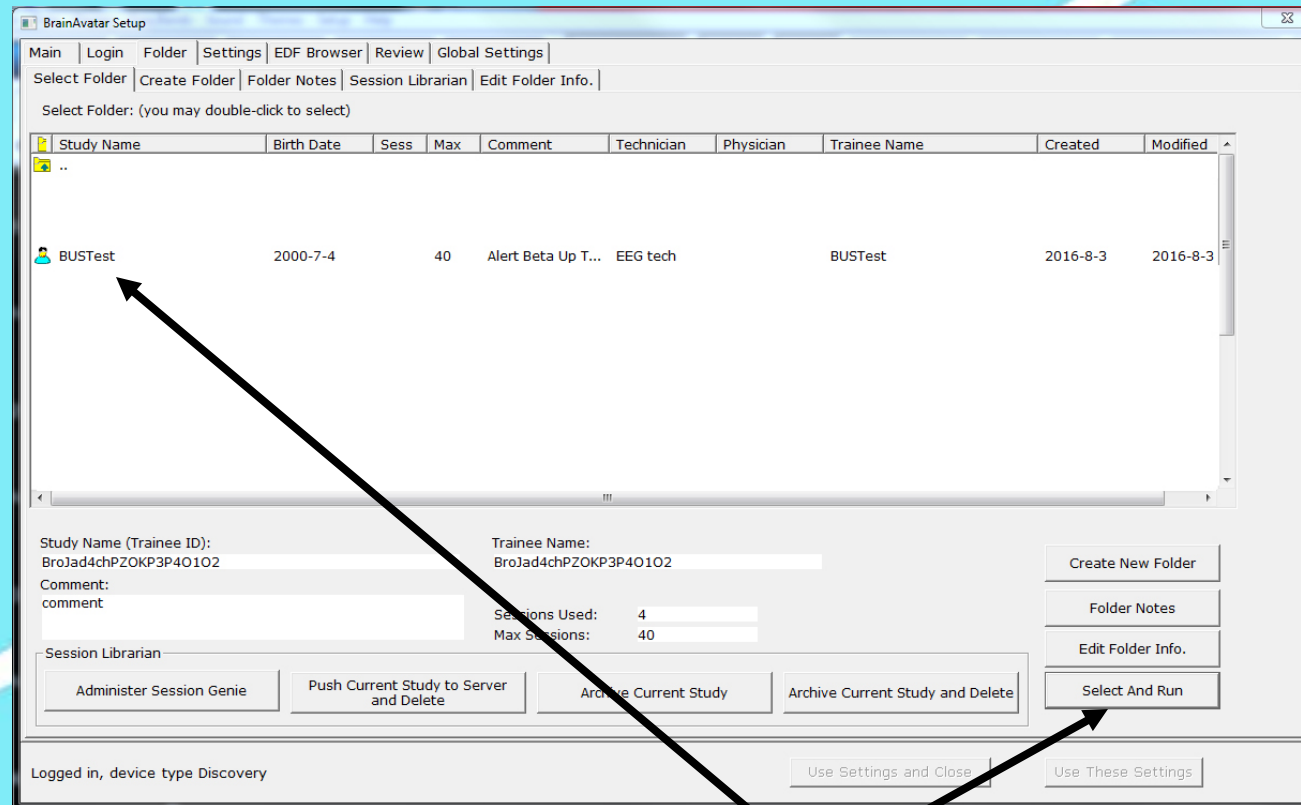
Administer Session Genie | Push Current Study to Server and Delete | Archive Current Study | Archive Current Study and Delete

Create New Folder  
Folder Notes  
Edit Folder Info.  
Select And Run

Logged in, device type Discovery

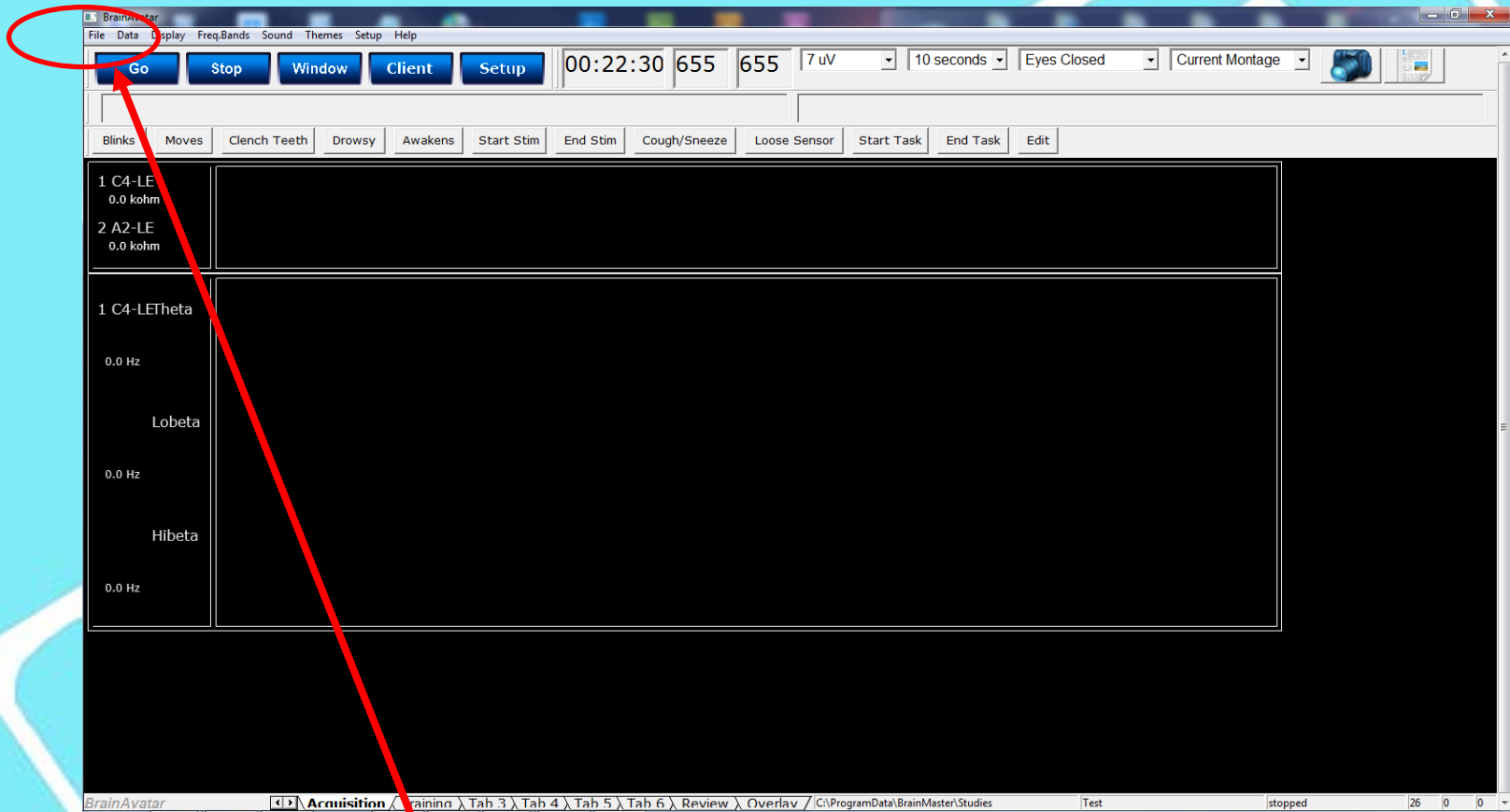
Use Settings and Close | Use These Settings

- The Select Folder Screen will appear.



- Click the Study (Folder) you would like to open (in this case BUSTest) and then click “Select and Run”.

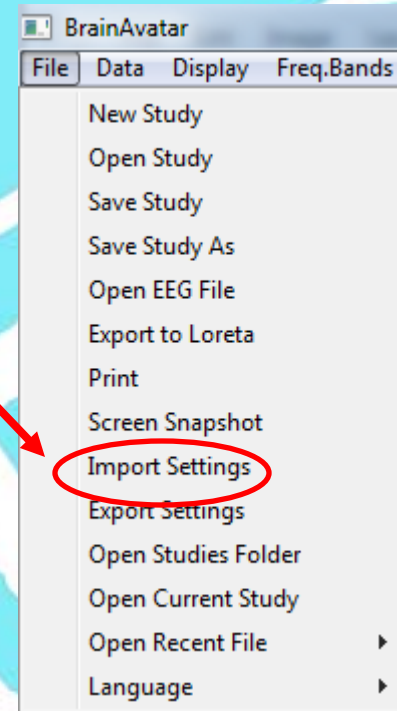
- The BrainAvatar Acquisition Screen is illuminated. Let's load the original Focus Level 1 Setting File.




- Click “File” from the Main Menu at the top.



- Next click “Import Settings”.



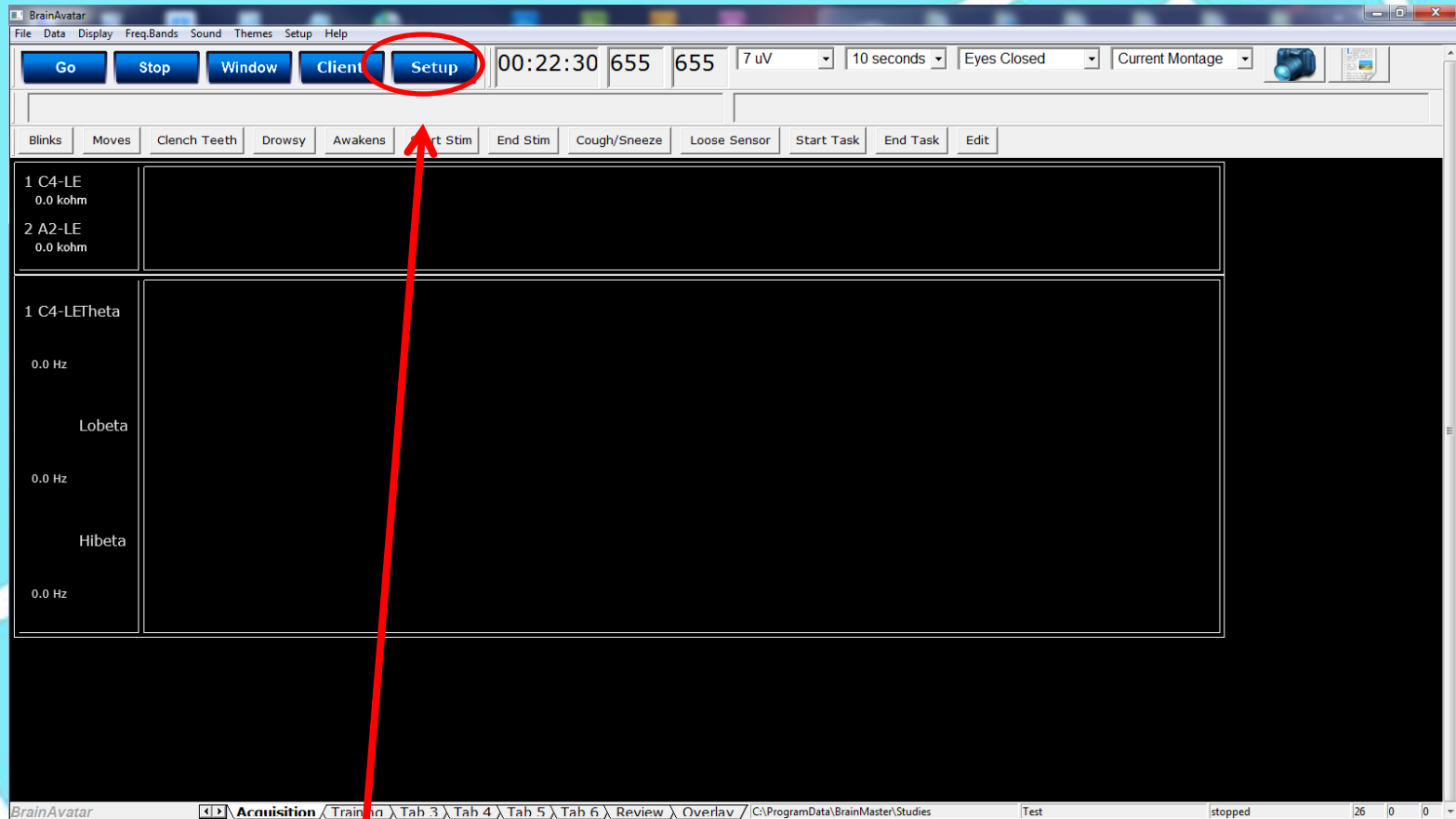
- Scroll to find the original Focus Level 1 File and double click it.

| Name  | Date modified        | Type      | Size   |
|---|----------------------|-----------|--------|
|  0401001Focus.bdb2 | 11/17/2015 12:56 ... | BDB2 File | 142 KB |

- The original Focus Level 1 setting is imported into the Client’s Study and is now ready for modification.

# FOCUS

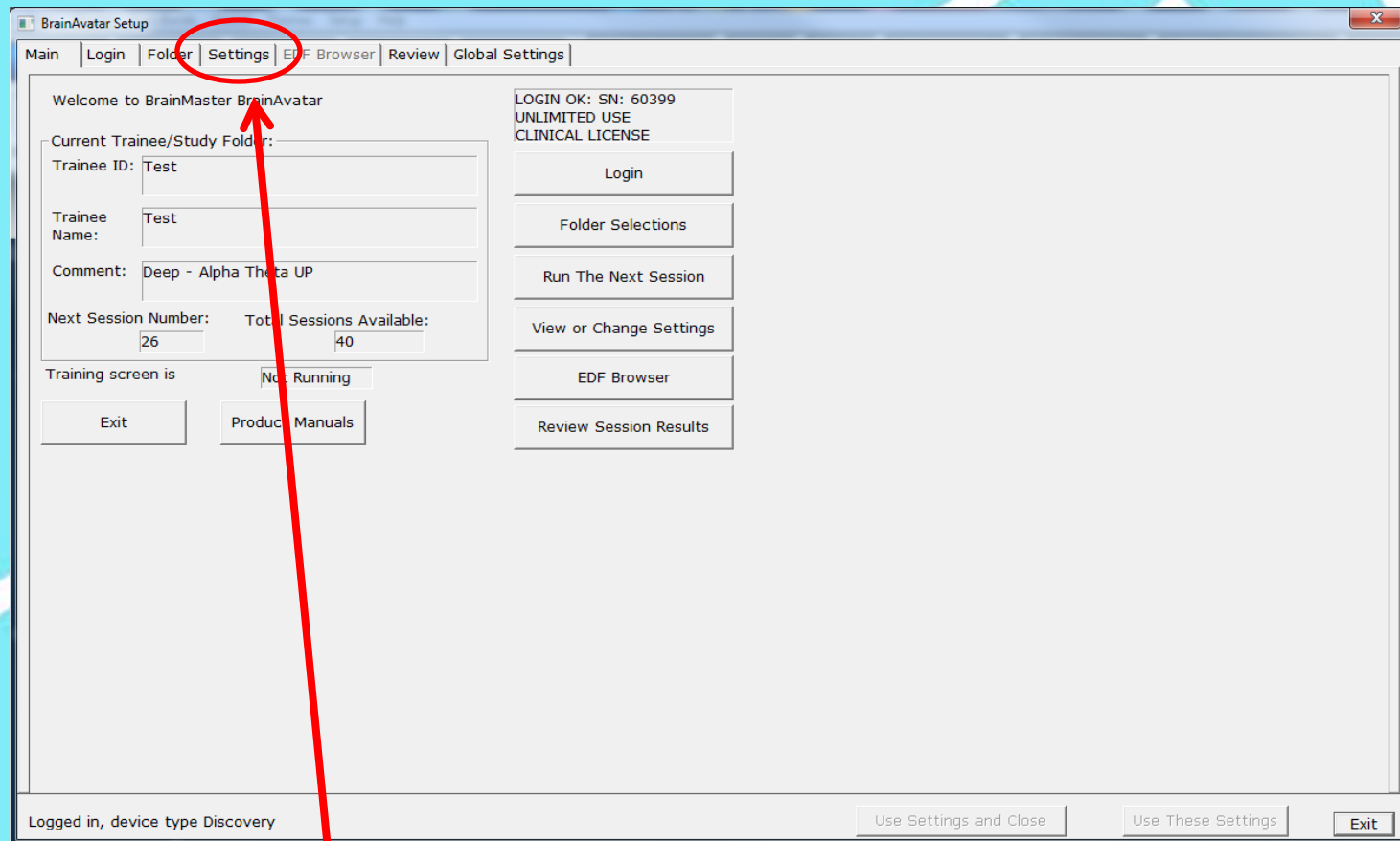
The Protocol is now ready for Modification



- Click “Setup”.

# FOCUS

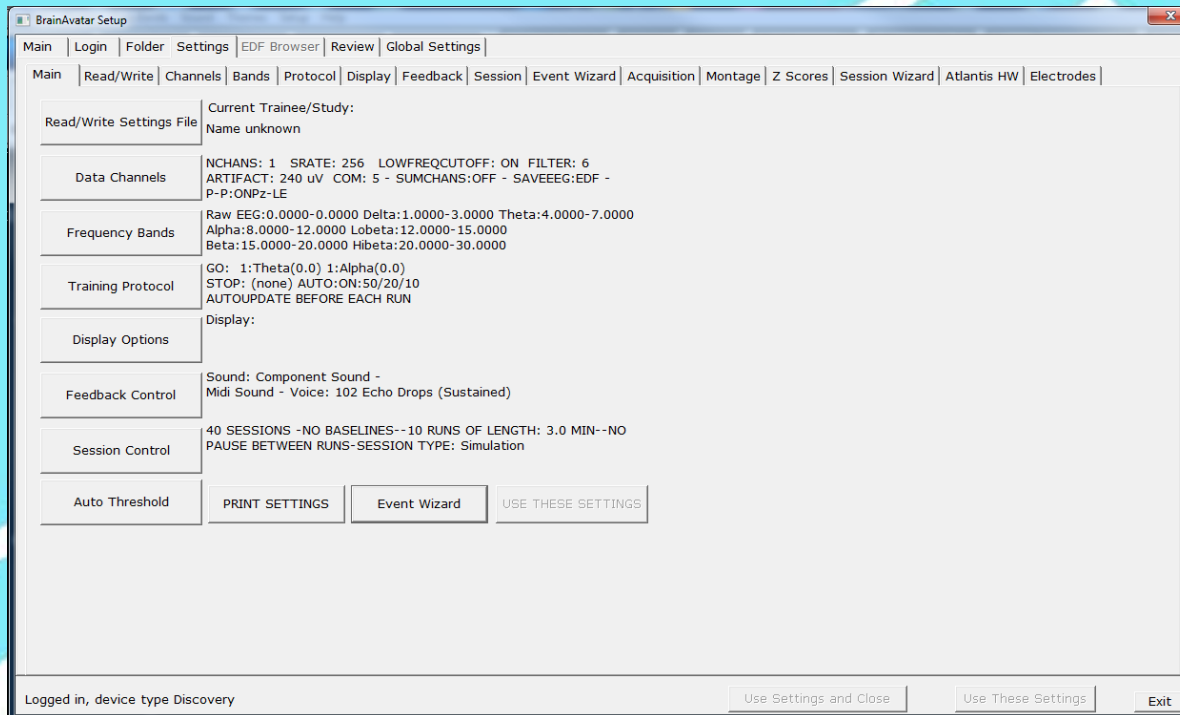
The Protocol is now ready for Modification



- Click “Settings”.

# FOCUS

## The Protocol is now ready for Modification

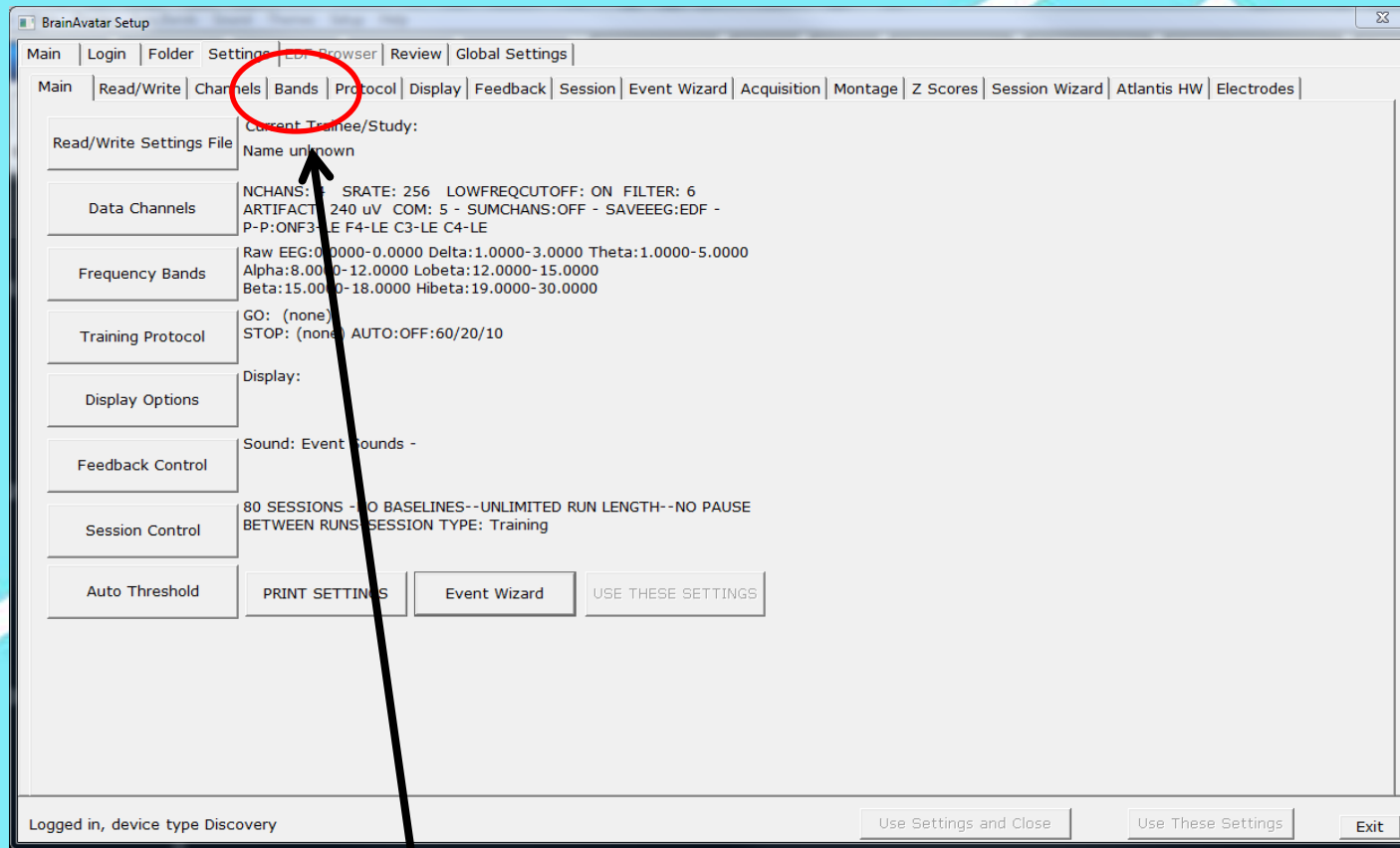


YOU ARE NOW ABOUT TO ENTER THE “BRAIN CENTER” OF THE BRAINAVATAR PROGRAM. ANY HAPHAZARD MODIFICATIONS HERE WITHOUT KNOWLEDGE MAY CAUSE UNPREDICTABLE RESULTS. THIS INSTRUCTION MANUAL WILL GIVE YOU THE PROPER KNOWLEDGE TO ALTER THESE CONTROL SCREENS WITHOUT CONCERN. AGAIN, YOU CAN ALWAYS INSTALL THE ORIGINAL SETTING FILE IF NECESSARY.



# FOCUS

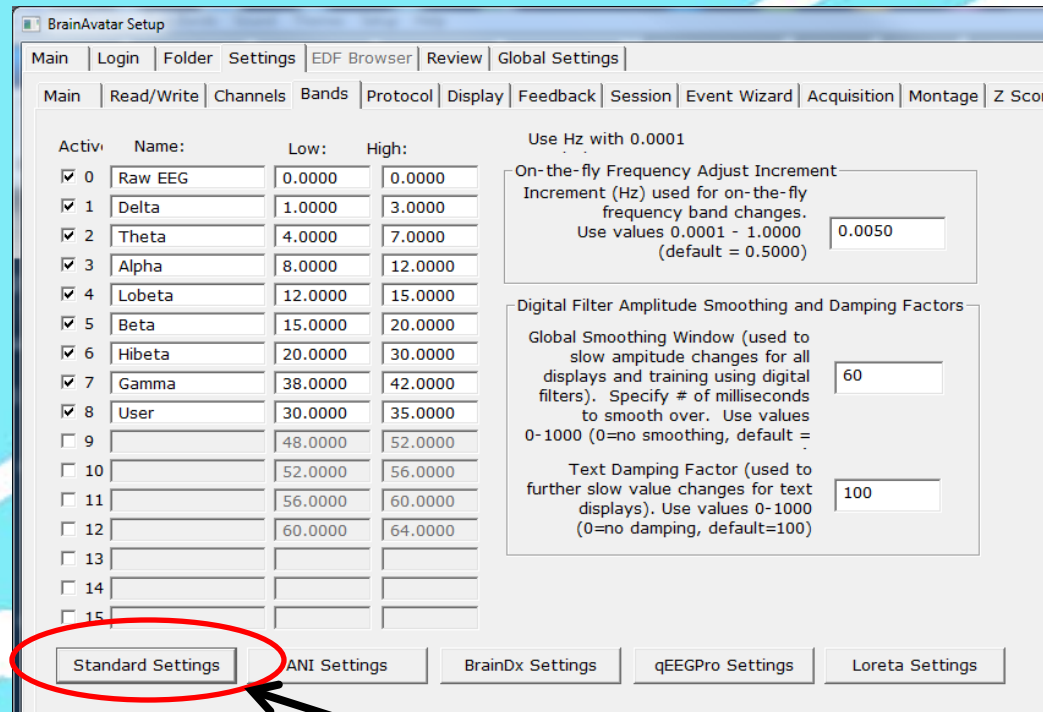
The Protocol is now ready for Modification



Click "Bands".

# FOCUS

The Protocol is now ready for Modification



This is the Bands Screen where frequency bands are defined. The default setting for the Frequency Bands are “Standard Settings” which you can always return to by clicking the “Standard Settings” Button

# FOCUS

The Protocol is now ready for Modification

The screenshot shows the 'BrainAvatar Setup' window with the 'Protocol' tab selected. It features a table of frequency bands with checkboxes, names, and low/high frequency ranges. To the right are input fields for 'On-the-fly Frequency Adjust Increment' and 'Global Smoothing Window'. At the bottom, a row of preset buttons is circled in red.

| Active                              | Name      | Low     | High    |
|-------------------------------------|-----------|---------|---------|
| <input checked="" type="checkbox"/> | 0 Raw EEG | 0.0000  | 0.0000  |
| <input checked="" type="checkbox"/> | 1 Delta   | 1.0000  | 3.0000  |
| <input checked="" type="checkbox"/> | 2 Theta   | 4.0000  | 7.0000  |
| <input checked="" type="checkbox"/> | 3 Alpha   | 8.0000  | 12.0000 |
| <input checked="" type="checkbox"/> | 4 Lobeta  | 12.0000 | 15.0000 |
| <input checked="" type="checkbox"/> | 5 Beta    | 15.0000 | 20.0000 |
| <input checked="" type="checkbox"/> | 6 Hibeta  | 20.0000 | 30.0000 |
| <input checked="" type="checkbox"/> | 7 Gamma   | 38.0000 | 42.0000 |
| <input checked="" type="checkbox"/> | 8 User    | 30.0000 | 35.0000 |
| <input type="checkbox"/>            | 9         | 48.0000 | 52.0000 |
| <input type="checkbox"/>            | 10        | 52.0000 | 56.0000 |
| <input type="checkbox"/>            | 11        | 56.0000 | 60.0000 |
| <input type="checkbox"/>            | 12        | 60.0000 | 64.0000 |
| <input type="checkbox"/>            | 13        |         |         |
| <input type="checkbox"/>            | 14        |         |         |
| <input type="checkbox"/>            | 15        |         |         |

Use Hz with 0.0001

On-the-fly Frequency Adjust Increment  
Increment (Hz) used for on-the-fly frequency band changes.  
Use values 0.0001 - 1.0000 (default = 0.5000)

Digital Filter Amplitude Smoothing and Damping Factors

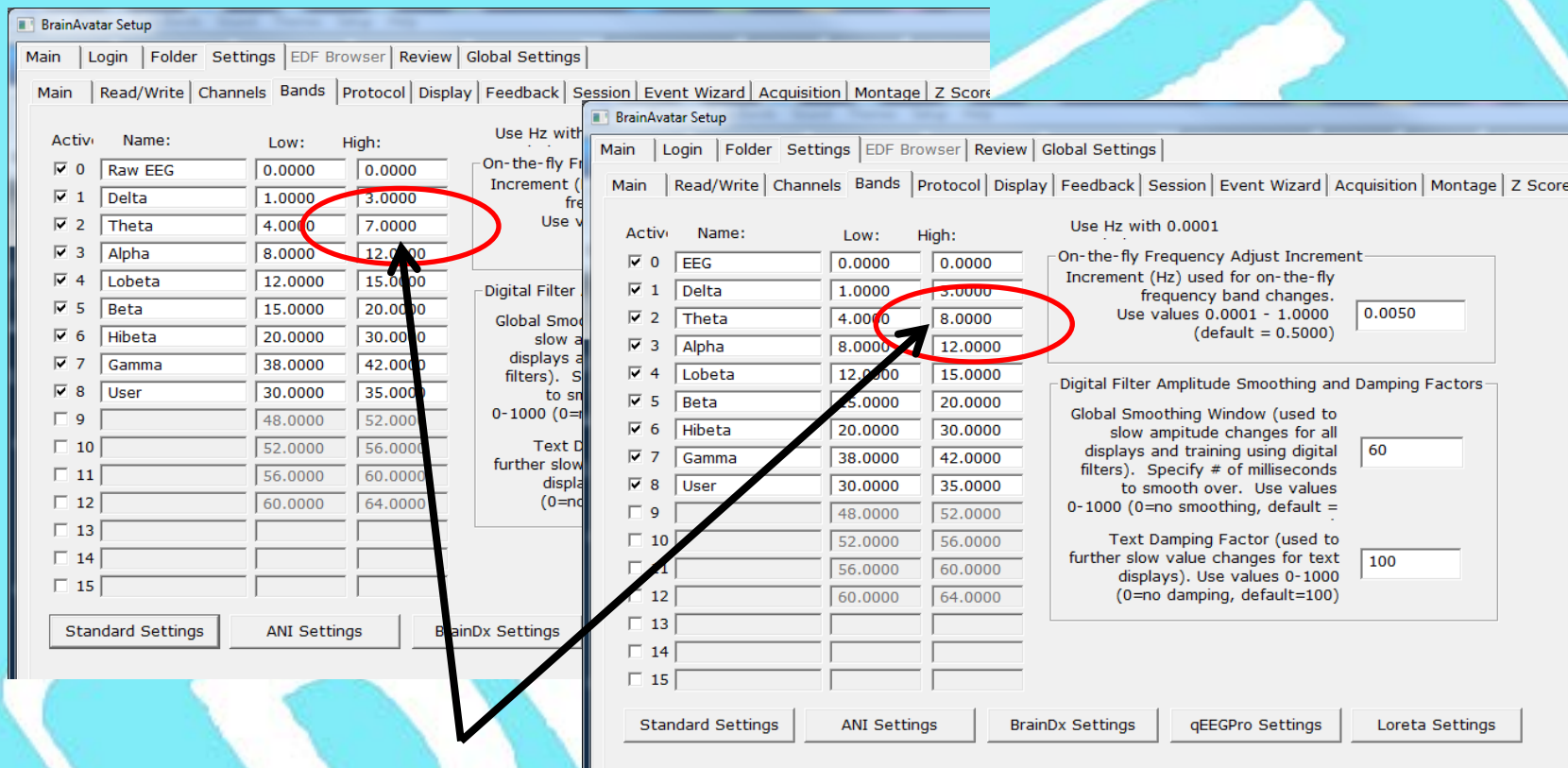
Global Smoothing Window (used to slow amplitude changes for all displays and training using digital filters). Specify # of milliseconds to smooth over. Use values 0-1000 (0=no smoothing, default = 60)

Text Damping Factor (used to further slow value changes for text displays). Use values 0-1000 (0=no damping, default=100)

Presets for “ANI Settings, BrainDx Settings, “qEEGPro Settings” and “Loreta Settings” may be clicked if the frequency band requirements are set by a specific database.

# FOCUS

The Protocol is now ready for Modification

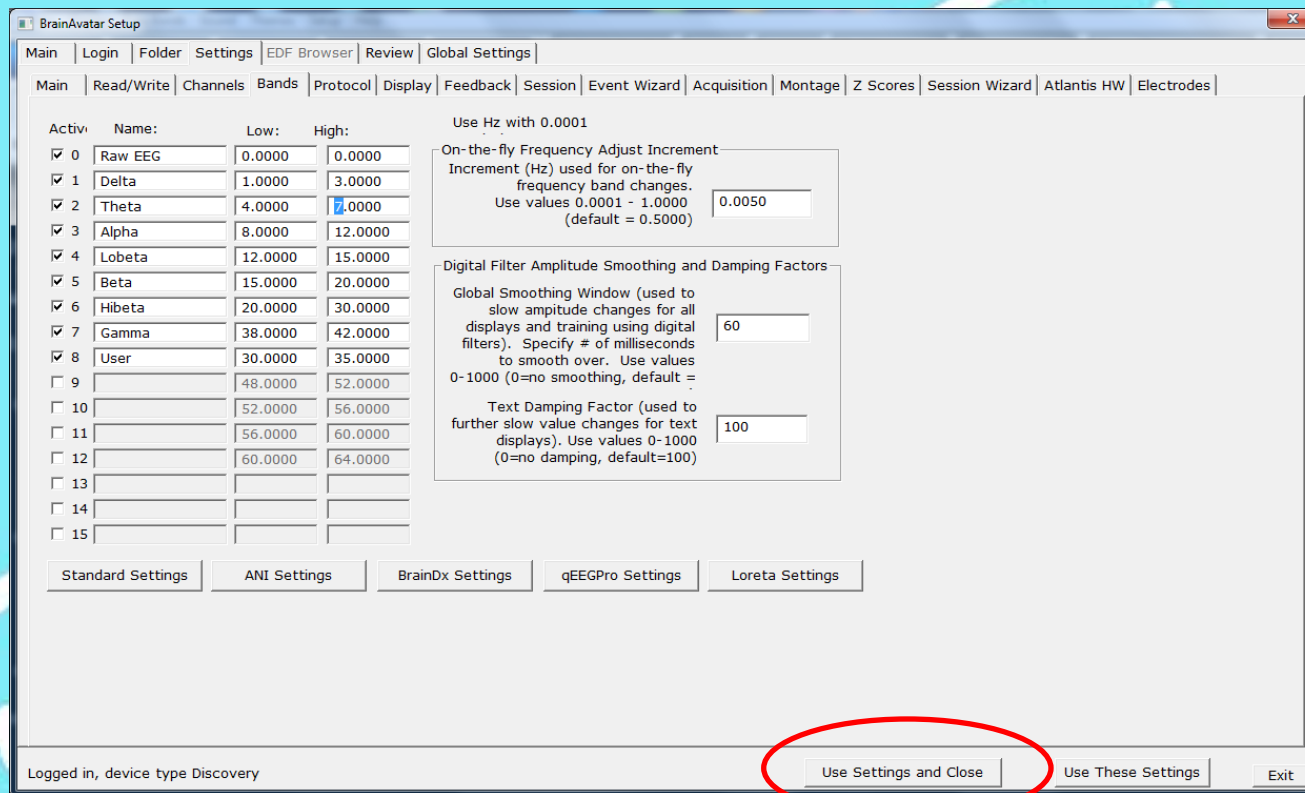


If, for instance you have a specific frequency band requirement such as Theta which should be 4-8Hz rather than 4-7Hz, then all you need to do is change the frequency band in the Theta window.



# FOCUS

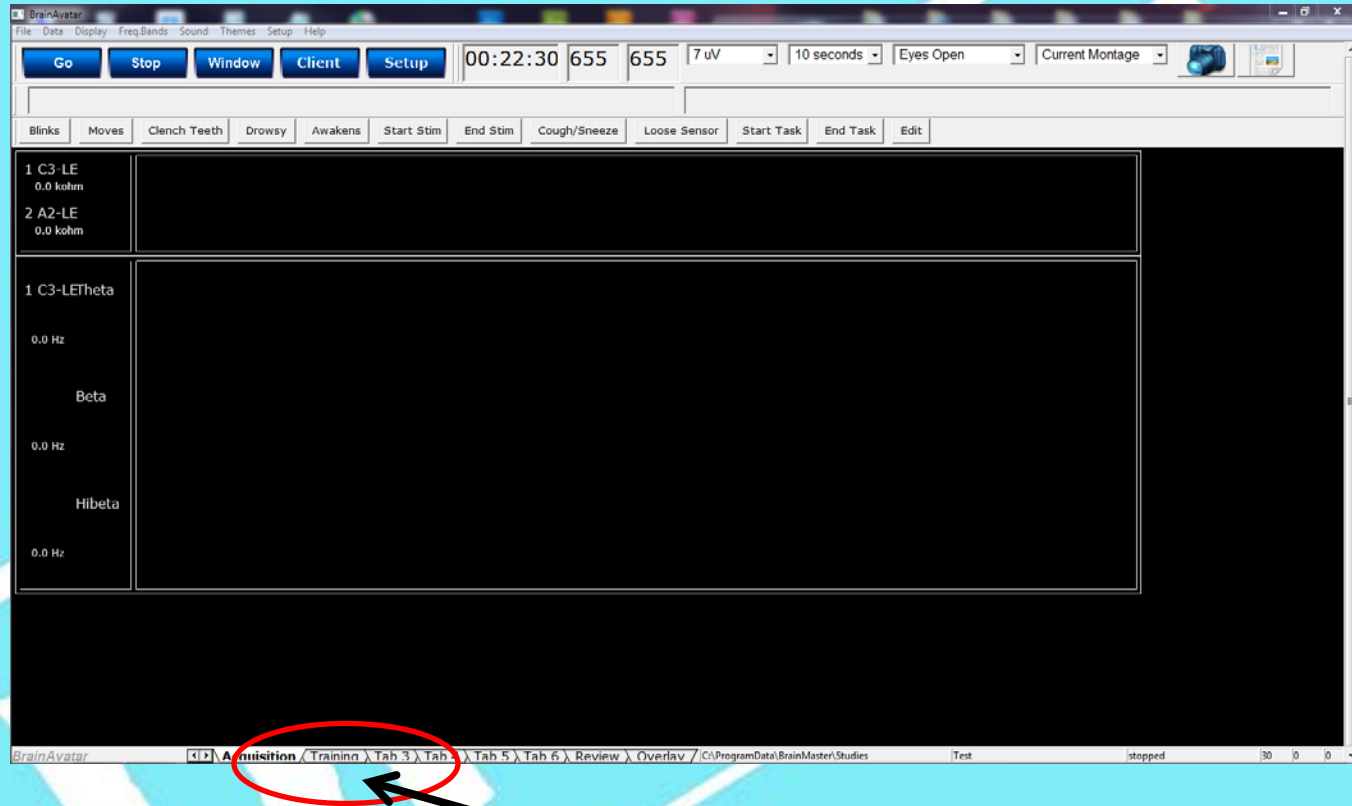
The Protocol is now ready for Modification



Once the bands have been changed click “Use Settings and Close” to save the change and exit the settings window.

# FOCUS

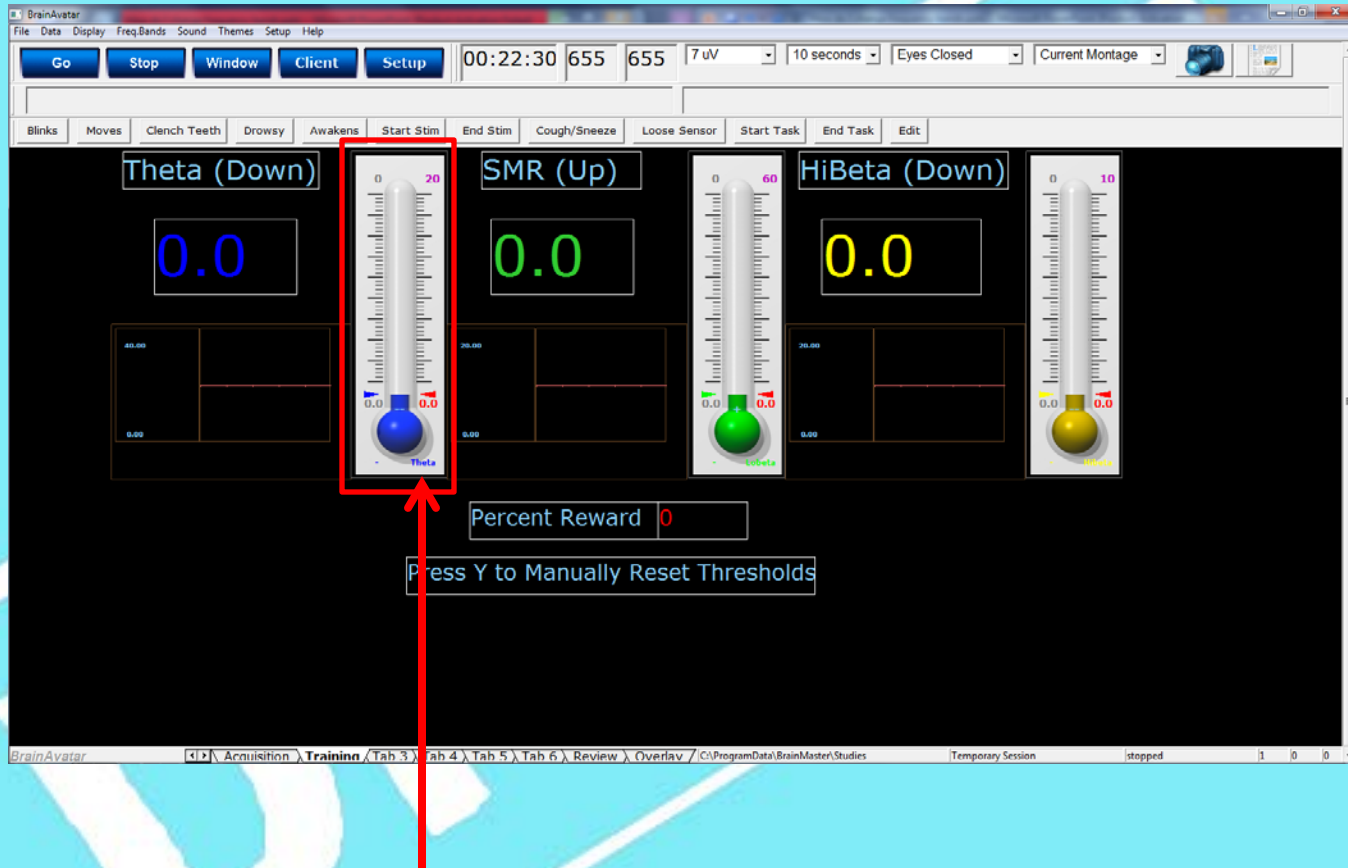
The Protocol is now ready for Modification



Once you close the Settings Screen you are returned to the “Acquisition Tab” of the Protocol. Switch to the “Training Tab”.

# FOCUS

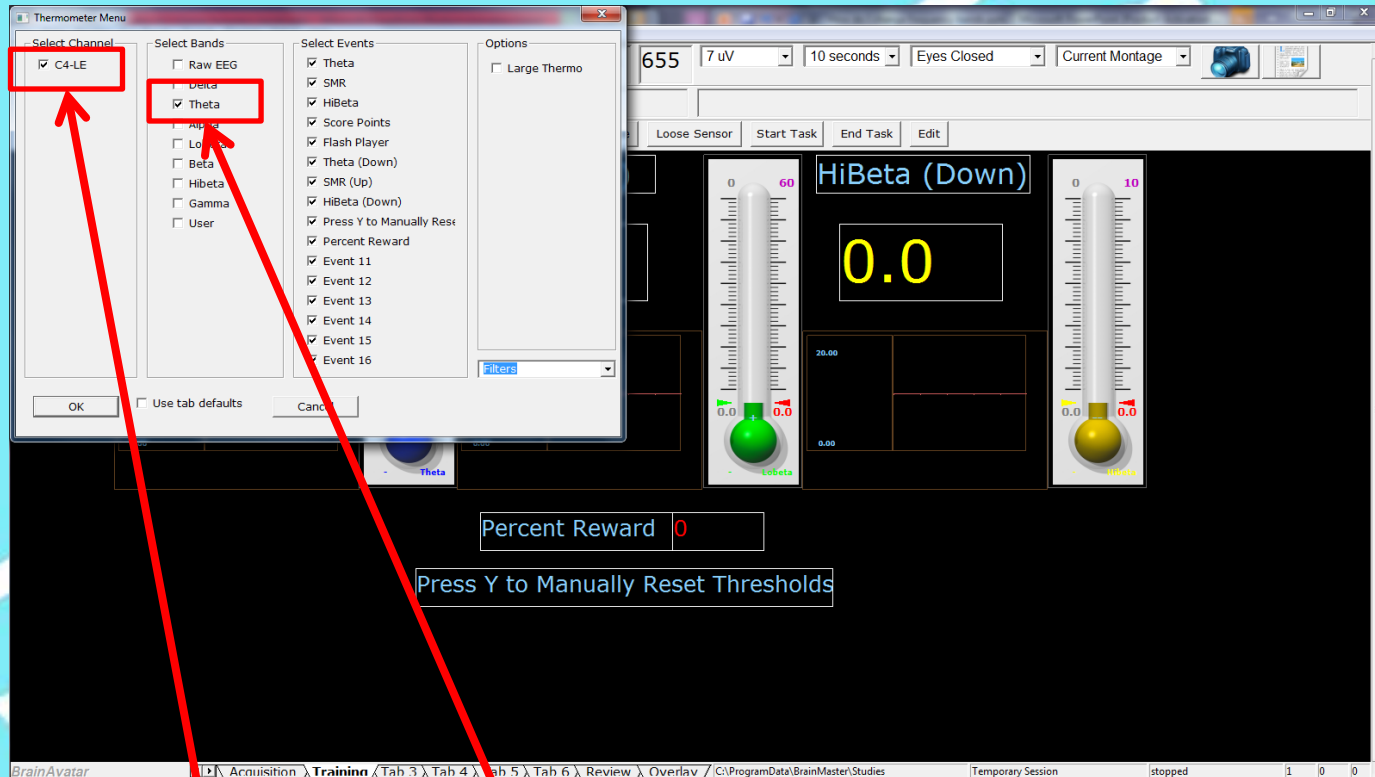
The Protocol is now ready for Modification



Once on this screen “Right-Click” on the Theta Thermometer.

# FOCUS

The Protocol is now ready for Modification

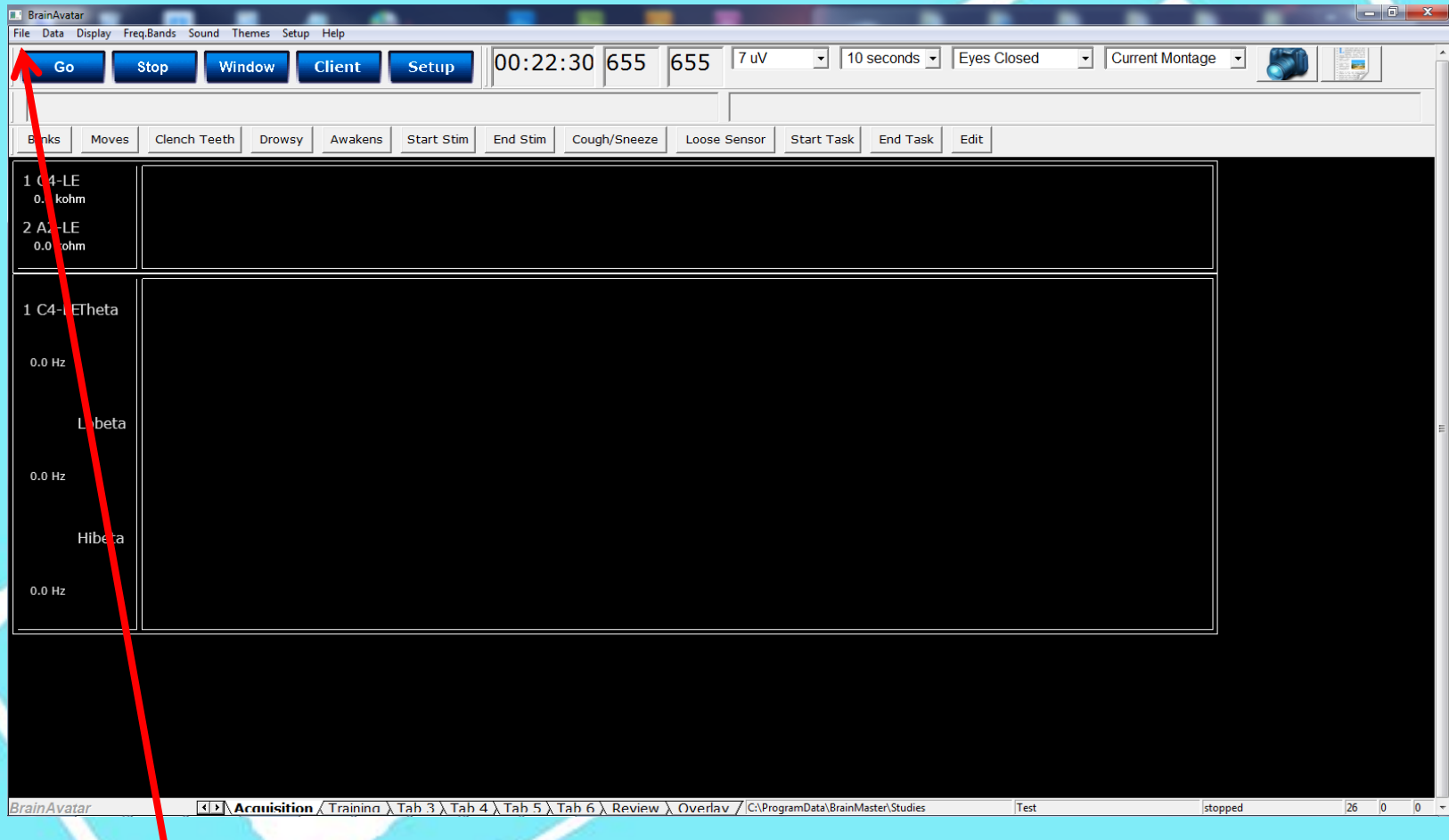


The “Thermometer Menu” appears. Notice this thermometer is operated by C4-LE, and the Theta Band. Guess What? Having changed the Theta band from 3-7Hz to 3-8Hz automatically changed the Training Frequency.



# FOCUS

The Protocol is now ready for Modification

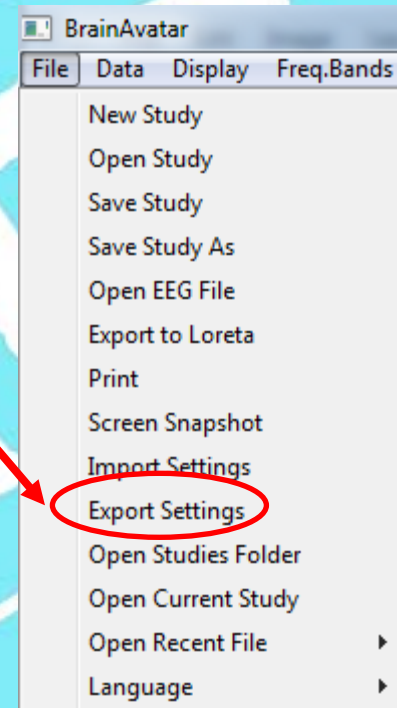


In order to save this modified setting Click “File” on the top menu.

# FOCUS

## Level 2

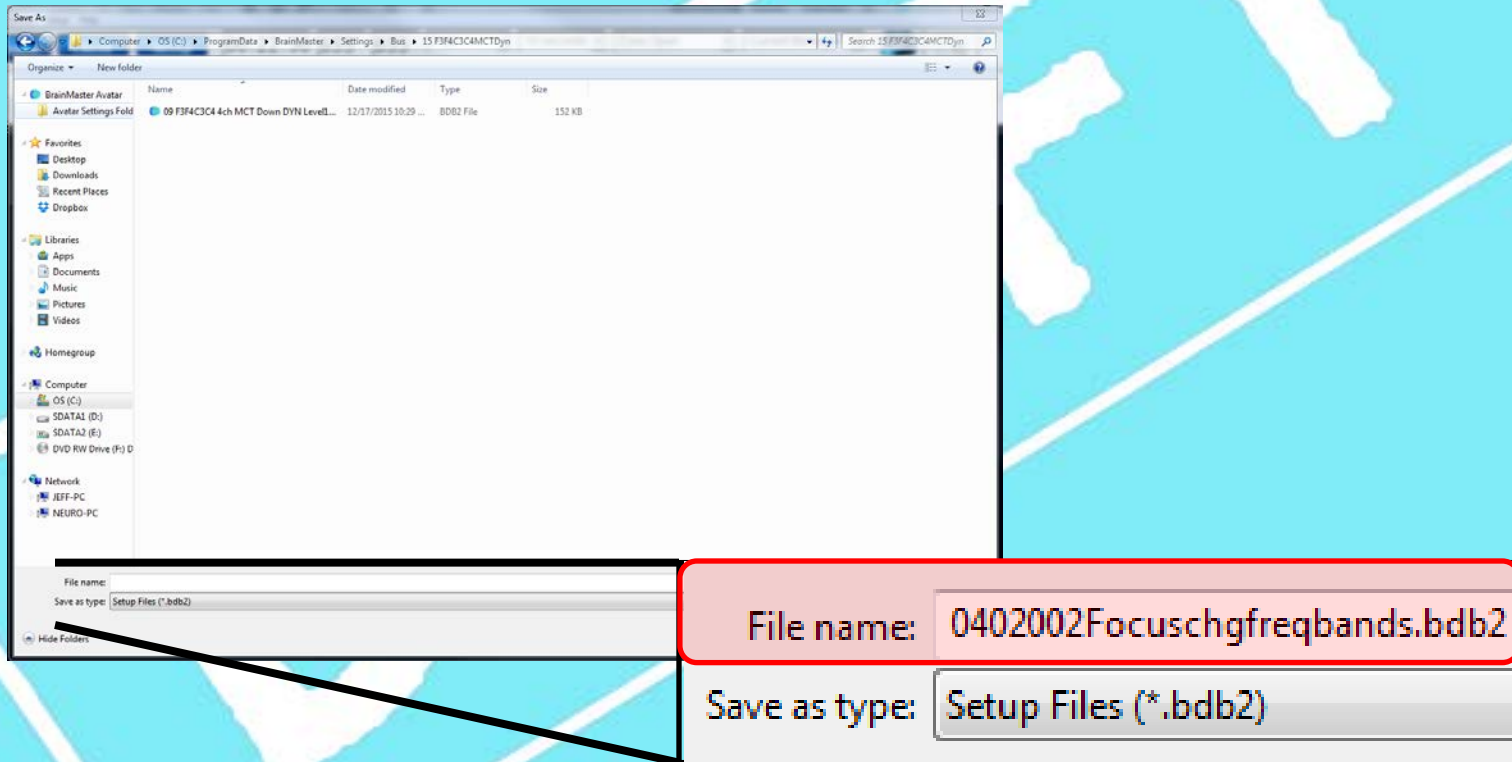
Next click “Export Settings”.



# FOCUS

## Level 2

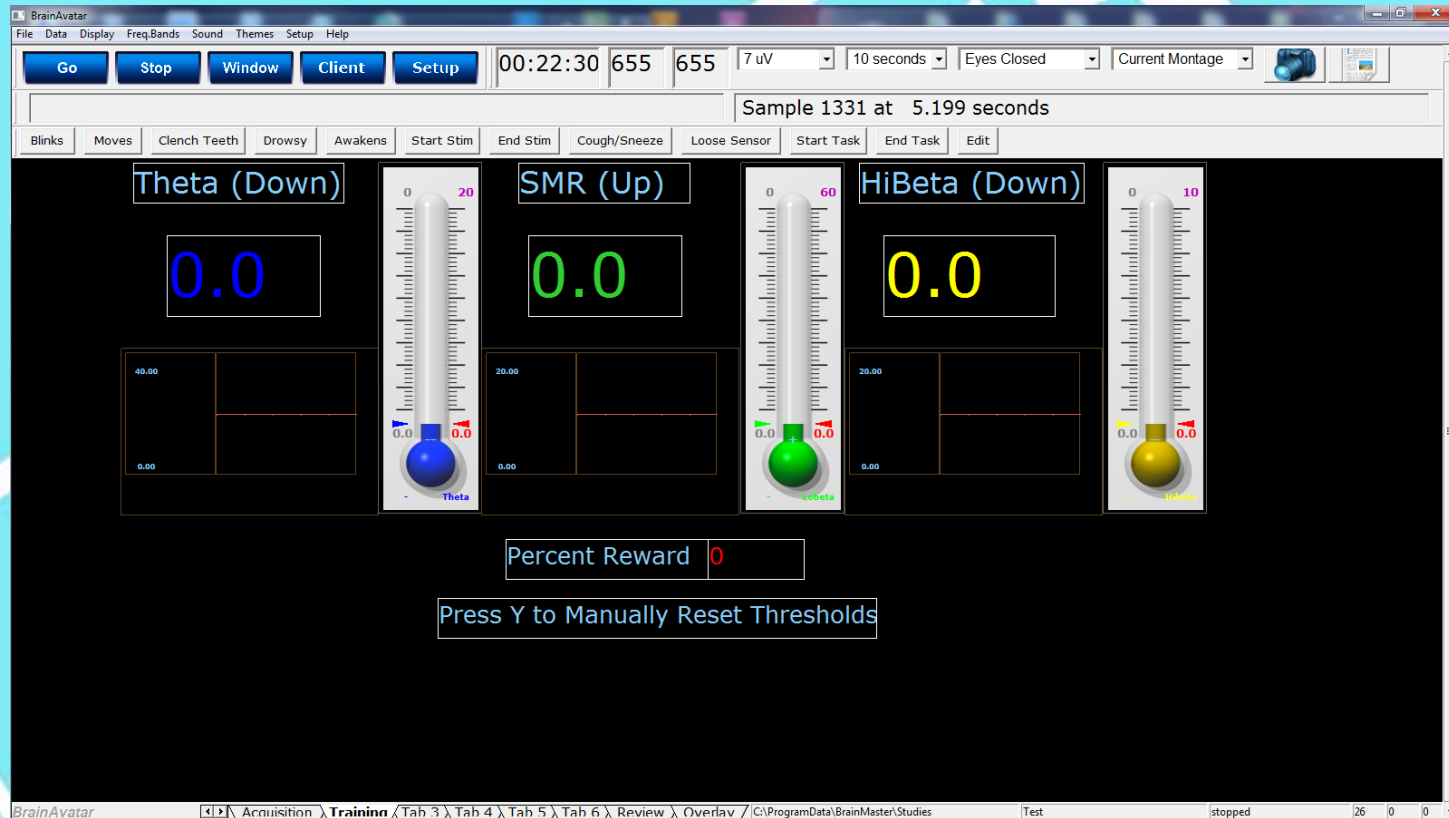
Find the 0402002Focuschgfreqbands Folder and store this setting file there. The file name has already been provided.



# FOCUS

## Level 2

The Protocol is now ready to run with the revisions made.





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