Fiberlaser

Close the program *"Fiber Comb Control"* and lock out the CEO- & REP-PID in the rack, otherwise you can't optimize the comb!

• Push Yes



• Push OK



- If you turn off and on the freugency comb, then push in the order:
 - 1. Reset
 - 2. Auto on
 - 3. Enable on



The program is done, if all four boxes [Laser on, Modelocked, Autoscramble, Enabled] are green!

- For closing the software:
 - 1. Halt
 - 2. Freeze
 - 3. Now you can optimize CEO-frequency, therefore play with the arrows *Stg 1-Stg 4*. Thereby you have to show the CEO-frequency on the Specki and afterwards show the Beat-Signal with 914nm-laser. If one beat is bad, you found a bad modelock point! And don't forget to optimize the Beat-Signal with 914nm-laser with the PCF and SHG controllers!
 - 4. Close the window

• Possible problems:

- 1. If you can't modelocked the laser. Don't worry maybe the fs Laser and Amplifier is off. Then push:
 - Push Laser on
 - Push Amplifier on

file Edit View Help								
Detector Values AC II039 DC Status Fiber Temp Laser on IN OFF Modelocked Connection Laser Temp Daser Temp Dase	Scramble Setting St. Minimum Maximum Step Width Last Lock	gs age 1 0 2700 10 1638 1	Stage 2 0 2705 8 14 0 down 👻	Stage 3 0 2713 17 2053 up	3 SI	tage 4 0 2700 0 1640 1	Offset Beat Control Stepsize: 1 10 CONTROL >>> Goto Repetition Rate Control Stepsize: 1 10	Auxiliary Drive Stepsize: 1 [10
Laser Autoscramble Interlock Laser on Laser off Enabled Dower Failure		Copy Sta	ages		Send	iend	Goto	Goto
Amplifier off Parameters Scramble Power Factor 0 0.000e+000 1 Reset Halt Settle Delay 50 Set Freeze Unfreeze Threshold 900 950 Set Auto on Auto off AC Weight 2560 500 Enable on Enable off DC Window 750 900 4095 Time since Reset: 00:0010 Save Memory Bank 1 (Default) V	1292 1.850e-002 dc2 P2 nd nd 0 Send 0.0.4095 Send Recall Con	Send	Stg 1	Stg 2	Stg 3	Stg 4		
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