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```
// g++ -o neuralfield_module.so -shared neuralfield_cpp.cpp `pkg-config --libs ->
#ifndef NEURALFIELD_H
#define NEURALFIELD_H

#include <boost/python.hpp>
#include <vector>
#include <algorithm>
#include <exception>
#include <iostream>
#include "convolution_fftw.h" // Used for the synchronous updates

// 1- With a fixed set point
#define THAL_MEAN_TARGET 0.4
#define TAU_H 10000.0

// 2- With an adaptive set point
/*
#define THAL_MEAN_TARGET 0.1
#define TAU_H 10000.0
#define TAU_H_MEAN 10000.0

#define HOMEOSTATIC_P 2.0
*/

class NeuralField
{
    int N;
    double tau_i, beta, si, tau_u, Ap, sp, Am, sigma_thalamic;

    bool synchronous;
    FFTW_Workspace ws_fftw;
}
```