Auto tune PID for Floor heating

OJ would like to improve the floor heating regulation in our thermostats. The challenge is that we do not know the thermal parameters of the floor as this depends on the installation which is out of our control. Therefore OJ would like to add an auto-tune function to the PID-regulation. By installation, this function should determine the thermal parameters of the floor and then apply this to the PID-regulation. During operation the PID should auto-tune its parameters in order to optimize the regulation of the floor heating system.

Your interests
You are strong in theoretical physics/mathematics and can apply this theory in C, C++ code.

Technology stack
Physics, Mathematics, C, C++

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