

CLASSROOM LEARNING DYNAMICS USING A CELLULAR  
AUTOMATA SPATIOTEMPORAL MODEL COMPARING PEER  
INSTRUCTION AND TRADITIONAL INSTRUCTION

CLARENCE IOAKIM T. SY

NATIONAL INSTITUTE OF PHYSICS  
College of Science  
University of the Philippines  
Diliman, Quezon City

JANUARY 2025

C.I.T. SY

CLASSROOM LEARNING DYNAMICS USING A CELLULAR AUTOMATA SPATIOTEMPORAL  
MODEL COMPARING PEER INSTRUCTION AND TRADITIONAL INSTRUCTION

UP 2025