Spatiotemporal Modeling and Simulation

11 :: Waves
**Topic**

Waves

**Program**

Governing equation and its general solution
Properties of waves
Definitions of wave-related terms
Boundary conditions for waves
Standing waves and oscillations
Solution using particles
Self-test questions
Learning goals

Know the governing equation and its general solution by heart

Be able to define the wave terms and know how they are interrelated

Know how waves are reflected at boundaries and be able to relate this to the method of images

Understand oscillations as standing waves

Be able to solve the wave equation with particle methods