



Massachusetts  
Institute of  
Technology

**Leslie  
Greengard**

New York University

**April 29 • 30 • May 1**

4:30–5:30pm

**New mathematical  
approaches in acoustics  
and electromagnetics**

**Lecture 1 Room 32-123**

Fast algorithms for wave  
propagation problems

4pm Reception outside room

**Lecture 2 Room 3-270**

A new potential theory  
for the Maxwell equations

4pm Reception in E18-466A

**Lecture 3 Room 4-370**

High resolution inverse scattering

4PM Reception in E18-466A

# SIMONS LECTURES IN MATHEMATICS

2015

**Laure  
Saint-Raymond**

École Normale Supérieure

**May 4 • 5 • 6**

4:30–5:30pm

**From particle systems to  
kinetic equations**

**Lecture 1 Room E25-111**

The low density limit:  
formal derivation

4pm Reception in Room E18-466A

**Lecture 2 Room E25-111**

A short time convergence result

4pm Reception in Room E18-466A

**Lecture 3 Room 32-123**

The case of fluctuations around  
a global equilibrium

4pm Reception outside room

**MIT DEPARTMENT  
OF MATHEMATICS**