Emergence of dispersive shock waves and rarefaction waves in dimer granular crystals

Madeleine Généreux, 2019

This summer, I studied the mathematics behind granular crystals. This combined my academic interests because the equations I worked with and derived are based in physics and the applications of studying shocks propagating in granular chains are rooted in engineering.

A granular crystal is a chain of materials that interact with one another. For this