Event driven simulation of a granular gas

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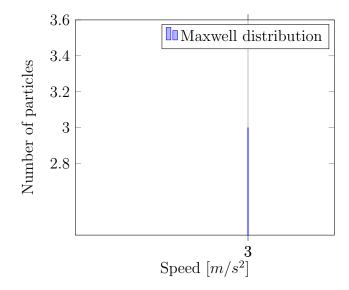
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Abstract

This report summarizes a computational experiment where a two dimensional granular gas has been simulted in an event driven simulation.

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1   Introduction

A granular gas is a two dimensional model in which a gas is represented by circular particles of finite raadii and masses, that can collide elastically or inellastically. In this report, some results from simulations of suh a gas are given. The simulations show results that are in agreement with staatistical mechanics.

2   Theory

3   Results