${\bf c3particles:} \\ {\bf Modeling\ Particle\ Systems\ in\ C++} \\$

Rosalie Kletzander

Practical Course "Advanced Software Development with Modern C++"
Summer Semester 2018
MSc Tobias Fuchs
Institute for Computer Science
Ludwig-Maximilians-Universität München

Abstract. Particle systems are used in many different areas, ...animation, simulation, research, No matter the area of application, the basic rules governing these systems are the same: the laws of physics. C3particles (cpp particles) implements a model of a particle system in C++ that separates the physical concepts and laws from the underlying graphics library. This enables a mathematical formulation of the forces influencing the particles.

1 Introduction