Contents

List of Acronyms

AABB   Axis Aligned Bounding Box

ADF   Adaptively sampled Distance Field

BRep   Boundary Representation

BReps   Boundary Representations

BVH   Bounding Volume Hierarchy

CAD   Computer-Aided Design

CSG   Constructive Solid Geometry

FRep   Function Representation

GPU   Graphics Processing Unit

MVC   Mean Value Coordinates

NURBS   Non-Uniform Rational B-Spline

OBB   Oriented Bounding Box

PCA   Principal Component Analysis

RBF   Radial Basis Function

SAH   Surface Area Heuristic

SDF   Signed Distance Field

STTI   Space Time Transfinite Interpolation

SARDF   Signed Approximate Real Distance Functions

TI   Transfinite Interpolation

1 Physics

Behringer!