```
/*****/ (function(modules) { // webpackBootstrap
/*****/
               // The module cache
/*****/
               var installedModules = {};
/*****/
               // The require function
/*****/
               function webpack require (moduleId) {
/*****/
                      // Check if module is in cache
/*****/
                      if(installedModules[moduleId])
/*****/
                              return installedModules[moduleId].exports;
/*****/
                      // Create a new module (and put it into the cache)
/*****/
                      var module = installedModules[moduleId] = {
/*****/
                              exports: {},
/*****/
                              id: moduleId,
/*****/
                              loaded: false
/*****/
                      };
/*****/
                      // Execute the module function
/*****/
                      modules[moduleId].call(module.exports, module, module.exports,
__webpack_require__);
/*****/
                      // Flag the module as loaded
/*****/
                      module.loaded = true;
/*****/
                      // Return the exports of the module
/*****/
                      return module.exports;
/*****/
/*****/
               // expose the modules object ( webpack modules )
/*****/
               webpack require .m = modules;
/*****/
               // expose the module cache
/*****/
               webpack require .c = installedModules;
/*****/
               // __webpack_public_path_
/*****/
               __webpack_require__.p = "";
/*****/
               // Load entry module and return exports
/*****/
               return __webpack_require__(0);
/*****/ })
/*****/ ([
/* 0 */
/***/ function(module, exports, webpack require ) {
       /* global THREE, AFRAME, Element */
       var cylinderTexture = __webpack_require__(1);
       var parabolicCurve = __webpack_require__(2);
       var RayCurve = __webpack_require__(3);
       if (typeof AFRAME === 'undefined') {
         throw new Error('Component attempted to register before AFRAME was available.');
       if (!Element.prototype.matches) {
         Element.prototype.matches =
           Element.prototype.matchesSelector | |
           Element.prototype.mozMatchesSelector ||
           Element.prototype.msMatchesSelector ||
           Element.prototype.oMatchesSelector ||
           Element.prototype.webkitMatchesSelector ||
           function (s) {
```

```
var matches = (this.document || this.ownerDocument).guerySelectorAll(s);
      var i = matches.length;
      while (--i \ge 0 \&\& matches.item(i) !== this) { /* no-op */ }
      return i > -1;
    };
}
AFRAME.registerComponent('teleport-controls', {
  schema: {
    type: {default: 'parabolic', oneOf: ['parabolic', 'line']},
    button: {default: 'trackpad', oneOf: ['trackpad', 'trigger', 'grip', 'menu']},
    startEvents: {type: 'array'},
    endEvents: {type: 'array'},
    collisionEntities: {default: ''},
    hitEntity: {type: 'selector'},
    cameraRig: {type: 'selector'},
    teleportOrigin: {type: 'selector'},
    hitCylinderColor: {type: 'color', default: '#99ff99'},
   hitCylinderRadius: {default: 0.25, min: 0},
    hitCylinderHeight: {default: 0.3, min: 0},
    maxLength: {default: 10, min: 0, if: {type: ['line']}},
    curveNumberPoints: {default: 30, min: 2, if: {type: ['parabolic']}},
    curveLineWidth: {default: 0.025},
    curveHitColor: {type: 'color', default: '#99ff99'},
   curveMissColor: {type: 'color', default: '#ff0000'},
curveShootingSpeed: {default: 5, min: 0, if: {type: ['parabolic']}},
    defaultPlaneSize: { default: 100 },
    landingNormal: {type: 'vec3', default: '0 1 0'},
    landingMaxAngle: {default: '45', min: 0, max: 360}
  },
  init: function () {
    var data = this.data;
    var el = this.el;
    var teleportEntity;
    var i;
    this.active = false;
    this.obj = el.object3D;
    this.hitPoint = new THREE.Vector3();
    this.rigWorldPosition = new THREE.Vector3();
    this.newRigWorldPosition = new THREE.Vector3();
    this.teleportEventDetail = {
      oldPosition: this.rigWorldPosition,
      newPosition: this.newRigWorldPosition,
      hitPoint: this.hitPoint
    };
    this.hit = false;
    this.prevHitHeight = 0;
    this.referenceNormal = new THREE.Vector3();
    this.curveMissColor = new THREE.Color();
    this.curveHitColor = new THREE.Color();
    this.raycaster = new THREE.Raycaster();
    this.defaultPlane = createDefaultPlane(this.data.defaultPlaneSize);
    teleportEntity = this.teleportEntity = document.createElement('a-entity');
    teleportEntity.classList.add('teleportRay');
    teleportEntity.setAttribute('visible', false);
    el.sceneEl.appendChild(this.teleportEntity);
    this.onButtonDown = this.onButtonDown.bind(this);
    this.onButtonUp = this.onButtonUp.bind(this);
    if (this.data.startEvents.length && this.data.endEvents.length) {
```

```
for (i = 0; i < this.data.startEvents.length; i++) {</pre>
                el.addEventListener(this.data.startEvents[i], this.onButtonDown);
              for (i = 0; i < this.data.endEvents.length; i++) {</pre>
                el.addEventListener(this.data.endEvents[i], this.onButtonUp);
            } else {
              el.addEventListener(data.button + 'down', this.onButtonDown);
              el.addEventListener(data.button + 'up', this.onButtonUp);
            this.queryCollisionEntities();
          },
          update: function (oldData) {
            var data = this.data;
            var diff = AFRAME.utils.diff(data, oldData);
            // Update normal.
            this.referenceNormal.copy(data.landingNormal);
            // Update colors.
            this.curveMissColor.set(data.curveMissColor);
            this.curveHitColor.set(data.curveHitColor);
            // Create or update line mesh.
            if (!this.line ||
                'curveLineWidth' in diff || 'curveNumberPoints' in diff || 'type' in diff) {
              this.line = createLine(data);
              this.teleportEntity.setObject3D('mesh', this.line.mesh);
            }
            // Create or update hit entity.
            if (data.hitEntity) {
              this.hitEntity = data.hitEntity;
            } else if (!this.hitEntity || 'hitCylinderColor' in diff || 'hitCylinderHeight' in diff
Ш
                       'hitCylinderRadius' in diff) {
              // Remove previous entity, create new entity (could be more performant).
              if (this.hitEntity) { this.hitEntity.parentNode.removeChild(this.hitEntity); }
              this.hitEntity = createHitEntity(data);
              this.el.sceneEl.appendChild(this.hitEntity);
            this.hitEntity.setAttribute('visible', false);
            if ('collisionEntities' in diff) { this.queryCollisionEntities(); }
          },
          remove: function () {
            var el = this.el;
            var hitEntity = this.hitEntity;
            var teleportEntity = this.teleportEntity;
            if (hitEntity) { hitEntity.parentNode.removeChild(hitEntity); }
            if (teleportEntity) { teleportEntity.parentNode.removeChild(teleportEntity); }
            el.sceneEl.removeEventListener('child-attached', this.childAttachHandler);
            el.sceneEl.removeEventListener('child-detached', this.childDetachHandler);
          },
          tick: (function () {
            var p0 = new THREE.Vector3();
            var v0 = new THREE.Vector3();
            var g = -9.8;
```

```
var a = new THREE.Vector3(0, g, 0);
            var next = new THREE.Vector3();
            var last = new THREE.Vector3();
            var quaternion = new THREE.Quaternion();
            var translation = new THREE.Vector3();
            var scale = new THREE.Vector3();
            var shootAngle = new THREE.Vector3();
            var lastNext = new THREE.Vector3();
            var auxDirection = new THREE.Vector3();
            return function (time, delta) {
              if (!this.active) { return; }
              var matrixWorld = this.obj.matrixWorld;
              matrixWorld.decompose(translation, quaternion, scale);
              var direction = shootAngle.set(0, 0, -1)
                .applyQuaternion(quaternion).normalize();
              this.line.setDirection(auxDirection.copy(direction));
              this.obj.getWorldPosition(p0);
              last.copy(p0);
              // Set default status as non-hit
              this.teleportEntity.setAttribute('visible', true);
              this.line.material.color.set(this.curveMissColor);
              this.hitEntity.setAttribute('visible', false);
              this.hit = false;
              if (this.data.type === 'parabolic') {
                v0.copy(direction).multiplyScalar(this.data.curveShootingSpeed);
                for (var i = 0; i < this.line.numPoints; i++) {</pre>
                  var t = i / (this.line.numPoints - 1);
                  parabolicCurve(p0, v0, a, t, next);
                  // Update the raycaster with the length of the current segment last->next
                  var dirLastNext = lastNext.copy(next).sub(last).normalize();
                  this.raycaster.far = dirLastNext.length();
                  this.raycaster.set(last, dirLastNext);
                  if (this.checkMeshCollisions(i, next)) { break; }
                  last.copy(next);
              } else if (this.data.type === 'line') {
next.copy(last).add(auxDirection.copy(direction).multiplyScalar(this.data.maxLength));
                this.raycaster.far = this.data.maxLength;
                this.raycaster.set(p0, direction);
                this.line.setPoint(0, p0);
                this.checkMeshCollisions(1, next);
              }
            };
          })(),
           * Run `querySelectorAll` for `collisionEntities` and maintain it with `child-attached`
           * and `child-detached` events.
          queryCollisionEntities: function () {
            var collisionEntities;
            var data = this.data;
            var el = this.el;
            if (!data.collisionEntities) {
```

```
this.collisionEntities = [];
              return;
            collisionEntities = [].slice.call(el.sceneEl.querySelectorAll(data.collisionEntities));
            this.collisionEntities = collisionEntities;
            // Update entity list on attach.
            this.childAttachHandler = function childAttachHandler (evt) {
              if (!evt.detail.el.matches(data.collisionEntities)) { return; }
              collisionEntities.push(evt.detail.el);
            };
            el.sceneEl.addEventListener('child-attached', this.childAttachHandler);
            // Update entity list on detach.
            this.childDetachHandler = function childDetachHandler (evt) {
              var index;
              if (!evt.detail.el.matches(data.collisionEntities)) { return; }
              index = collisionEntities.indexOf(evt.detail.el);
              if (index === -1) { return; }
              collisionEntities.splice(index, 1);
            };
            el.sceneEl.addEventListener('child-detached', this.childDetachHandler);
          },
          onButtonDown: function () {
            this.active = true;
          },
          /**
           * Jump!
           */
          onButtonUp: (function () {
            const teleportOriginWorldPosition = new THREE.Vector3();
            const newRigLocalPosition = new THREE.Vector3();
            const newHandPosition = new THREE.Vector3();
            const handPosition = new THREE.Vector3();
            return function (evt) {
              if (!this.active) { return; }
              // Hide the hit point and the curve
              this.active = false;
              this.hitEntity.setAttribute('visible', false);
              this.teleportEntity.setAttribute('visible', false);
              if (!this.hit) {
                // Button released but not hit point
                return;
              const rig = this.data.cameraRig || this.el.sceneEl.camera.el;
              rig.object3D.getWorldPosition(this.rigWorldPosition);
              this.newRigWorldPosition.copy(this.hitPoint);
              // If a teleportOrigin exists, offset the rig such that the teleportOrigin is above the
hitPoint
              const teleportOrigin = this.data.teleportOrigin;
              if (teleportOrigin) {
                teleportOrigin.object3D.getWorldPosition(teleportOriginWorldPosition);
                this.newRigWorldPosition.sub(teleportOriginWorldPosition).add(this.rigWorldPosition);
              }
              // Always keep the rig at the same offset off the ground after teleporting
              this.newRigWorldPosition.y = this.rigWorldPosition.y + this.hitPoint.y -
```

```
this.prevHitHeight;
              this.prevHitHeight = this.hitPoint.y;
              // Finally update the rigs position
              newRigLocalPosition.copy(this.newRigWorldPosition);
              if (rig.object3D.parent) {
                rig.object3D.parent.worldToLocal(newRigLocalPosition);
              rig.setAttribute('position', newRigLocalPosition);
              // If a rig was not explicitly declared, look for hands and mvoe them proportionally as
well
              if (!this.data.cameraRig) {
                var hands = document.querySelectorAll('a-entity[tracked-controls]');
                for (var i = 0; i < hands.length; i++) {
                  hands[i].object3D.getWorldPosition(handPosition);
                  // diff = rigWorldPosition - handPosition
                  // newPos = newRigWorldPosition - diff
newHandPosition.copy(this.newRigWorldPosition).sub(this.rigWorldPosition).add(handPosition);
                  hands[i].setAttribute('position', newHandPosition);
              }
              this.el.emit('teleported', this.teleportEventDetail);
            };
          })(),
           * Check for raycaster intersection.
           * @param {number} Line fragment point index.
             @param {number} Next line fragment point index.
           * @returns {boolean} true if there's an intersection.
          checkMeshCollisions: function (i, next) {
            // @todo We should add a property to define if the collisionEntity is dynamic or static
            // If static we should do the map just once, otherwise we're recreating the array in
every
            // loop when aiming.
            var meshes = this.collisionEntities.map(function (entity) {
              return entity.getObject3D('mesh');
            }).filter(function (n) { return n; });
            meshes = meshes.length ? meshes : [this.defaultPlane];
            var intersects = this.raycaster.intersectObjects(meshes, true);
            if (intersects.length > 0 && !this.hit &&
                this.isValidNormalsAngle(intersects[0].face.normal)) {
              var point = intersects[0].point;
              this.line.material.color.set(this.curveHitColor);
              this.hitEntity.setAttribute('position', point);
              this.hitEntity.setAttribute('visible', true);
              this.hit = true;
              this.hitPoint.copy(intersects[0].point);
              // If hit, just fill the rest of the points with the hit point and break the loop
              for (var j = i; j < this.line.numPoints; j++) {</pre>
                this.line.setPoint(j, this.hitPoint);
              }
              return true;
            } else {
              this.line.setPoint(i, next);
```

```
return false;
    }
  isValidNormalsAngle: function (collisionNormal) {
    var angleNormals = this.referenceNormal.angleTo(collisionNormal);
    return (THREE.Math.RAD2DEG * angleNormals <= this.data.landingMaxAngle);</pre>
 },
});
function createLine (data) {
  var numPoints = data.type === 'line' ? 2 : data.curveNumberPoints;
  return new RayCurve(numPoints, data.curveLineWidth);
}
/**
 * Create mesh to represent the area of intersection.
 * Default to a combination of torus and cylinder.
function createHitEntity (data) {
  var cylinder;
  var hitEntity;
  var torus;
  // Parent.
  hitEntity = document.createElement('a-entity');
  hitEntity.className = 'hitEntity';
  // Torus.
  torus = document.createElement('a-entity');
  torus.setAttribute('geometry', {
    primitive: 'torus',
    radius: data.hitCylinderRadius,
    radiusTubular: 0.01
  });
  torus.setAttribute('rotation', {x: 90, y: 0, z: 0});
  torus.setAttribute('material', {
    shader: 'flat',
    color: data.hitCylinderColor,
    side: 'double',
    depthTest: false
  hitEntity.appendChild(torus);
  // Cylinder.
  cylinder = document.createElement('a-entity');
  cylinder.setAttribute('position', {x: 0, y: data.hitCylinderHeight / 2, z: 0});
  cylinder.setAttribute('geometry', {
    primitive: 'cylinder',
    segmentsHeight: 1,
    radius: data.hitCylinderRadius,
    height: data.hitCylinderHeight,
    openEnded: true
  });
  cylinder.setAttribute('material', {
    shader: 'flat',
    color: data.hitCylinderColor,
    side: 'double',
    src: cylinderTexture,
    transparent: true,
    depthTest: false
  });
  hitEntity.appendChild(cylinder);
```

```
return hitEntity;
}

function createDefaultPlane (size) {
   var geometry;
   var material;

   geometry = new THREE.PlaneBufferGeometry(100, 100);
   geometry.rotateX(-Math.PI / 2);
   material = new THREE.MeshBasicMaterial({color: 0xffff00});
   return new THREE.Mesh(geometry, material);
}

/***/ }

/***/ function(module, exports) {
   module.exports =
```

'url( AKT2lDQ1BQaG90b3Nob3AgSUNDIHByb2ZpbGUAAHjanVNnVFPpFj333vRCS4iAlEtvUhUIIFJCi4AUkSYqIQkQSoghodkVUcERRUU EG8igiAOOjoCMFVEsDIoK2AfkIaKOg6OIisr74Xuja9a89+bN/rXXPues852zzwfACAyWSDNRNYAMqUIeEeCDx8TG4eQuQIEKJHAA EAizZCFz/SMBAPh+PDwrIsAHvgABeNMLCADATZvAMByH/w/qOplcAYCEAcB0kThLCIAUAEB6jkKmAEBGAYCdmCZTAKAEAGDLY2LjA FATAGAnf+bTAICd+J17AQBb1CEVAaCRACATZYhEAGg7AKzPVopFAFgwABRmS8Q5ANgTADBJV2ZIALC3AMDOEAuyAAgMADBRiIUpAA R7AGDIIyN4AISZABRG81c88SuuEOcqAAB4mbI8uSQ5RYFbCC1xB1dXLh4ozkkXKxQ2YQJhmkAuwnmZGTKBNA/g88wAAKCRFRHgg/P 9eM4Ors70No62D18t6r8G/yJiYuP+5c+rcEAAAOF0ftH+LC+zGoA7BoBt/qI17gRoXgugdfeLZrIPQLUAoOnaV/Nw+H48PEWhkLnZ 2eXk5NhKxEJbYcpXff5nwl/AV/1s+X48/Pf14L7iJIEyXYFHBPjgwsz0TKUcz5IJhGLc5o9H/LcL//wd0yLESWK5WCoU41EScY5Em ozzMqUiiUKSKcUl0v9k4t8s+wM+3zUAsGo+AXuRLahdYwP2SycQWHTA4vcAAPK7b8HUKAgDgGiD4c93/+8//UegJQCAZkmScQAAXk QkLlTKsz/HCAAARKCBKrBBG/TBGCzABhzBBdzBC/xgNoRCJMTCQhBCCmSAHHJgKayCQiiGzbAdKmAv1EAdNMBRaIaTcA4uwlW4Dj1 wD/phCJ7BKLyBCQRByAgTYSHaiAFiilgjjggXmYX4IcFIBBKLJCDJiBRRIkuRNUgxUopUIFVIHfI9cgI5h1xGupE7yAAygvyGvEcx lIGyUT3UDLVDuag3GoRGogvQZHQxmo8WoJvQcrQaPYw2oefQq2gP2o8+Q8cww0gYBzPEbDAuxsNCsTgsCZNjy7EirAyrxhqwVqwDu 4n1Y8+xdwQSgUXACTYEd0IgYR5BSFhMWE7YSKggHCQ0EdoJNwkDhFHCJyKTqEu0JroR+cQYYjIxh1hILCPWEo8TLxB7iEPENyQSiU MyJ7mQAkmxpFTSEtJG0m5SI+ksqZs0SBojk8naZGuyBzmULCAryIXkneTD5DPkG+Qh8lsKnWJAcaT4U+IoUspqShnlEOU05QZlmDJ BVaOaUt2ooVQRNY9aQq2ht1KvUYeoEzR1mjnNgxZJS6WtopXTGmgXaPdpr+h0uhHd1R5O19BX0svpR+iX6AP0dwwNhhWDx4hnKBmb GACYZxl3GK+YTKYZ04sZx1QwNzHrmOeZD51vVVgqtip8FZHKCpVKlSaVGyovVKmqpqreqgtV81XLVI+pXlN9rkZVM1PjqQnUlqtVq p1Q61MbU2ep06iHqmeob1Q/pH5Z/YkGWcNMw09DpFGgsV/jvMYgC2MZs3gsIWsNq4Z1gTXEJrHN2Xx2KruY/R27iz2qqaE5QzNKM1 ezUvOUZj8H45hx+Jx0TgnnKKeX836K3hTvKeIpG6Y0TLkxZVxrqpaXllirSKtRq0frvTau7aedpr1Fu1n7gQ5Bx0onXCdHZ4/OBZ3 nU91T3acKpxZNPTr1ri6qa6UbobtEd79up+6Ynr5egJ5Mb6feeb3n+hx9L/1U/W36p/VHDFgGswwkBtsMzhg8xTVxbzwdL8fb8VFD XcNAQ6VhlWGX4YSRudE8o9VGjUYPjGnGXOMk423GbcajJgYmISZLTepN7ppSTbmmKaY7TDtMx83MzaLN1pk1mz0x1zLnm+eb15vft 2BaeFostqi2uGVJsuRaplnutrxuhVo5WaVYVVpds0atna0l1rutu6cRp7l0k06rntZnw7Dxtsm2qbcZsOXYBtuutm22fWFnYhdnt8 Wuw+6TvZN9un2N/T0HDYfZDqsdWh1+c7RyFDpWOt6azpzuP33F9JbpL2dYzxDP2DPjthPLKcRpnVOb00dnF2e5c4PziIuJS4LLLpc +Lpsbxt3IveRKdPVxXeF60vWdm70bwu2o26/uNu5p7ofcn8w0nymeWTNz0MPIQ+BR5dE/C5+VMGvfrH5PQ0+BZ7XnIy9jL5FXrdew t6V3qvdh7xc+9j5yn+M+4zw33jLeWV/MN8C3yLfLT8Nvnl+F30N/I/9k/3r/0QCngCUBZwOJgUGBWwL7+Hp8Ib+OPzrbZfay2e1Bj KC5QRVBj4KtguXBrSFoyOyQrSH355j0kc5pDoVQfujW0Adh5mGLw34MJ4WHhVeGP45wiFga0TGXNXfR3ENz30T6RJZE3ptnMU85ry 1KNSo+qi5qPNo3ujS6P8YuZlnM1VidWElsSxw5LiquNm5svt/87f0H4p3iC+N7F5gvyF1weaHOwvSFpxapLhIsOpZATIhOOJTwQRA qqBaMJfITdyWOCnnCHcJnIi/RNtGI2ENcKh508kgqTXqS7JG8NXkkxT01L0W5hCepkLxMDUzdmzqeFpp2IG0yPTq9MYOSkZBxOqoh TZO2Z+pn5mZ2y6xlhbL+xW6Lty8elQfJa7OQrAVZLQq2QqboVFoo1yoHsmdlV2a/zYnKOZarnivN7cyzytuQN5zvn//tEsIS4ZK2p YZLVy0dWOa9rGo5sjxxedsK4xUFK4ZWBqw8uIq2Km3VT6vtV5eufr0mek1rgV7ByoLBtQFr6wtVCuWFfevc1+1dT1gvWd+1YfqGnR s+FYmKrhTbF5cVf9go3Hj1G4dvyr+Z3JS0qavEuWTPZtJm6ebeLZ5bDpaq1+aXDm4N2dq0Dd9WtO319kXbL5fNKNu7g7ZDuaO/PLi 8ZafJzs07P1SkVPRU+1027tLdtWHX+G7R7ht7vPY07NXbW7z3/T7JvttVAVVN1WbVZftJ+7P3P66Jqun4lvttXa10bXHtxwPSA/0H Iw6217nU1R3SPVRSj9Yr60c0xx++/p3vdy0NNg1VjZzG4iNwRHnk6fcJ3/ceDTradox7r0EH0x92HWcdL2pCmvKaRptTmvtbYlu6T 8w+0dbq3nr8R9sfD5w0PF15SvNUyWna6YLTk2fyz4ydlZ19fi753GDborZ752PO32oPb++6EHTh0kX/i+c7vDv0XPK4dPKy2+UTV7 hXmq86X23qdOo8/pPTT8e7nLuarrlca7nuer21e2b36RueN87d9L158Rb/1tWeOT3dvfN6b/fF9/XfFt1+cif9zsu72Xcn7q28T7x f9EDtQdlD3YfVP1v+3Njv3H9qwHeg89HcR/cGhYPP/pH1jw9DBY+Zj8uGDYbrnjg+OTniP3L96fynQ89kzyaeF/6i/suuFxYvfvjV 69f00ZjRoZfy150/bXy1/erA6xmv28bCxh6+yXgzMV70VvvtwXfcdx3vo98PT+R8IH8o/2j5sfVT0Kf7kxmTk/8EA5jz/GMzLdsAA AAgY0hSTQAAeiUAAICDAAD5/wAAg0kAAHUwAADqYAAAOpgAABdvkl/FRgAAADJJREFUeNpEx7ENgDAAAzArK0JA6f8X9oewlcWStU 1wBGdwB08wgjeYm79jc2nbYH0DAC/+CORJx05fAAAAAElFTkSuQmCC)';

```
/***/ },
/* 2 */
/***/ function(module, exports) {

    /* global THREE */
    // Parabolic motion equation, y = p0 + v0*t + 1/2at^2
```

```
function parabolicCurveScalar (p0, v0, a, t) {
          return p0 + v0 * t + 0.5 * a * t * t;
        // Parabolic motion equation applied to 3 dimensions
        function parabolicCurve (p0, v0, a, t, out) {
          out.x = parabolicCurveScalar(p0.x, v0.x, a.x, t);
          out.y = parabolicCurveScalar(p0.y, v0.y, a.y, t);
          out.z = parabolicCurveScalar(p0.z, v0.z, a.z, t);
          return out;
        module.exports = parabolicCurve;
/***/ },
/* 3 */
/***/ function(module, exports) {
        /* global THREE */
        var RayCurve = function (numPoints, width) {
          this.geometry = new THREE.BufferGeometry();
          this.vertices = new Float32Array(numPoints * 3 * 2);
          this.uvs = new Float32Array(numPoints * 2 * 2);
          this.width = width;
          this.geometry.addAttribute('position', new THREE.BufferAttribute(this.vertices,
3).setDynamic(true));
          this.material = new THREE.MeshBasicMaterial({
            side: THREE.DoubleSide,
            color: 0xff0000
          });
          this.mesh = new THREE.Mesh(this.geometry, this.material);
          this.mesh.drawMode = THREE.TriangleStripDrawMode;
          this.mesh.frustumCulled = false;
          this.mesh.vertices = this.vertices;
          this.direction = new THREE.Vector3();
          this.numPoints = numPoints;
        };
        RayCurve.prototype = {
          setDirection: function (direction) {
            var UP = new THREE.Vector3(0, 1, 0);
            this.direction
              .copy(direction)
              .cross(UP)
              .normalize()
              .multiplyScalar(this.width / 2);
          },
          setWidth: function (width) {
            this.width = width;
          setPoint: (function () {
            var posA = new THREE.Vector3();
            var posB = new THREE.Vector3();
            return function (i, point) {
              posA.copy(point).add(this.direction);
              posB.copy(point).sub(this.direction);
```

```
var idx = 2 * 3 * i;
this.vertices[idx++] = posA.x;
this.vertices[idx++] = posA.y;
this.vertices[idx++] = posB.x;
this.vertices[idx++] = posB.y;
this.vertices[idx++] = posB.z;

this.vertices[idx++] = posB.z;

this.geometry.attributes.position.needsUpdate = true;
};
})()
};
module.exports = RayCurve;

/***/ }
/*****/ ]);
```