

User Manual 4.0 Ellipse

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Ellipses are used for the [finite elliptic cones](#).



Implementation

The Ellipse object implements the [SolidShape interface](#) and extends the [abstract ellipse](#) class. Please refer to the [Ellipse and AbstractEllipse javadoc](#) for a complete list of public methods.

Instantiation

The ellipse object is built from a centre (Vector3D), one vector representing the normal to the disk surface (Vector3D) and one radius :

```
Vector3D center = new Vector3D(1.0, 1.0, 1.0);
Vector3D normal = new Vector3D(1.0, 1.0, 0.0);
Vector3D uVector = new Vector3D(1.0, 1.0, 0.0);
double radiusA = 1;
double radiusB = 2;
Ellipse ellipse = new Ellipse(center, normal, uVector, radiusA, radiusB);
```

The local frame of the ellipse is built from the normal vector and the direction given by uVector (after orthogonolizing).

Usage

See [abstract ellipse](#) and [interactions with geometrical objects](#).

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