

# User Manual 3.4.1 Ellipse

De Wiki

Aller à : [navigation](#), [rechercher](#)

[User Manual 3.4.1 Ellipse](#)

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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## Menu de navigation

### Outils personnels

- [3.16.70.99](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

### Espaces de noms

- [Page](#)
- [Discussion](#)

## Variantes

### Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

### Plus

### Rechercher

## PATRIUS

- [Welcome](#)

### Evolutions

- [Main differences between V4.15 and V4.14](#)
- [Main differences between V4.14 and V4.13](#)
- [Main differences between V4.13 and V4.12](#)
- [Main differences between V4.12 and V4.11](#)
- [Main differences between V4.11 and V4.10](#)
- [Main differences between V4.10 and V4.9](#)
- [Main differences between V4.9 and V4.8](#)
- [Main differences between V4.8 and V4.7](#)
- [Main differences between V4.7 and V4.6.1](#)
- [Main differences between V4.6.1 and V4.5.1](#)
- [Main differences between V4.5.1 and V4.4](#)
- [Main differences between V4.4 and V4.3](#)
- [Main differences between V4.3 and V4.2](#)
- [Main differences between V4.2 and V4.1.1](#)
- [Main differences between V4.1.1 and V4.1](#)
- [Main differences between V4.1 and V4.0](#)
- [Main differences between V4.0 and V3.4.1](#)

### User Manual

- [User Manual 4.15](#)

- [User Manual 4.14](#)
- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)
- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)
- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

## **Tutorials**

- [Tutorials 4.15](#)
- [Tutorials 4.14](#)
- [Tutorials 4.13.5](#)
- [Tutorials 4.12.1](#)
- [Tutorials 4.8.1](#)
- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

## **Links**

- [CNES freeware server](#)

## **Navigation**

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

## **Outils**

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)

- [Information sur la page](#)
- [Citer cette page](#)
  
- Dernière modification de cette page le 4 avril 2018 à 12:14.
  
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)
  
- 