

# User Manual 4.0 Spherical Caps

De Wiki

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### Definition

The spherical cap object is built from a [sphere](#) and a [plane](#) intersecting the sphere :



The plane is delimiting the spherical cap. This plane must intersect with the sphere by more than a single point, if not the spherical cap is considered undefined. The direction of the plane is used to determine in which side the spherical cap is : it is on the side of the normal vector.

### Implementation

The SphericalCap object in the SIRIUS library implements the [SolidShape interface](#). Please refer to the [Javadoc](#) for a complete list of public methods.

### Instantiation

Code sample :

```
Sphere sphere = new Sphere(...);  
Plane plane = new Plane(...);  
SphericalCap spCap = new SphericalCap(sphere,plane);
```

### Usage

Please refer to the [MAT\_GEO\_Home#HInteractions Interactions with other geometrical objects section] for methods inherited from the Shape interface.

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