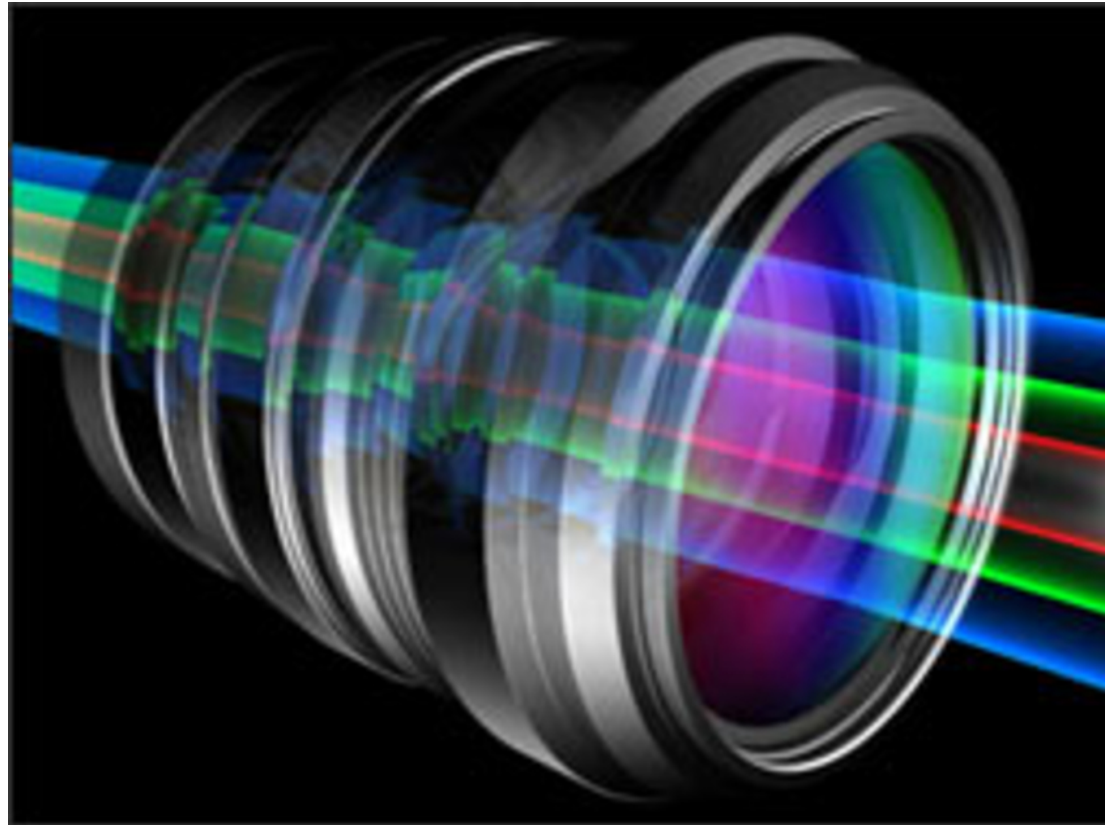
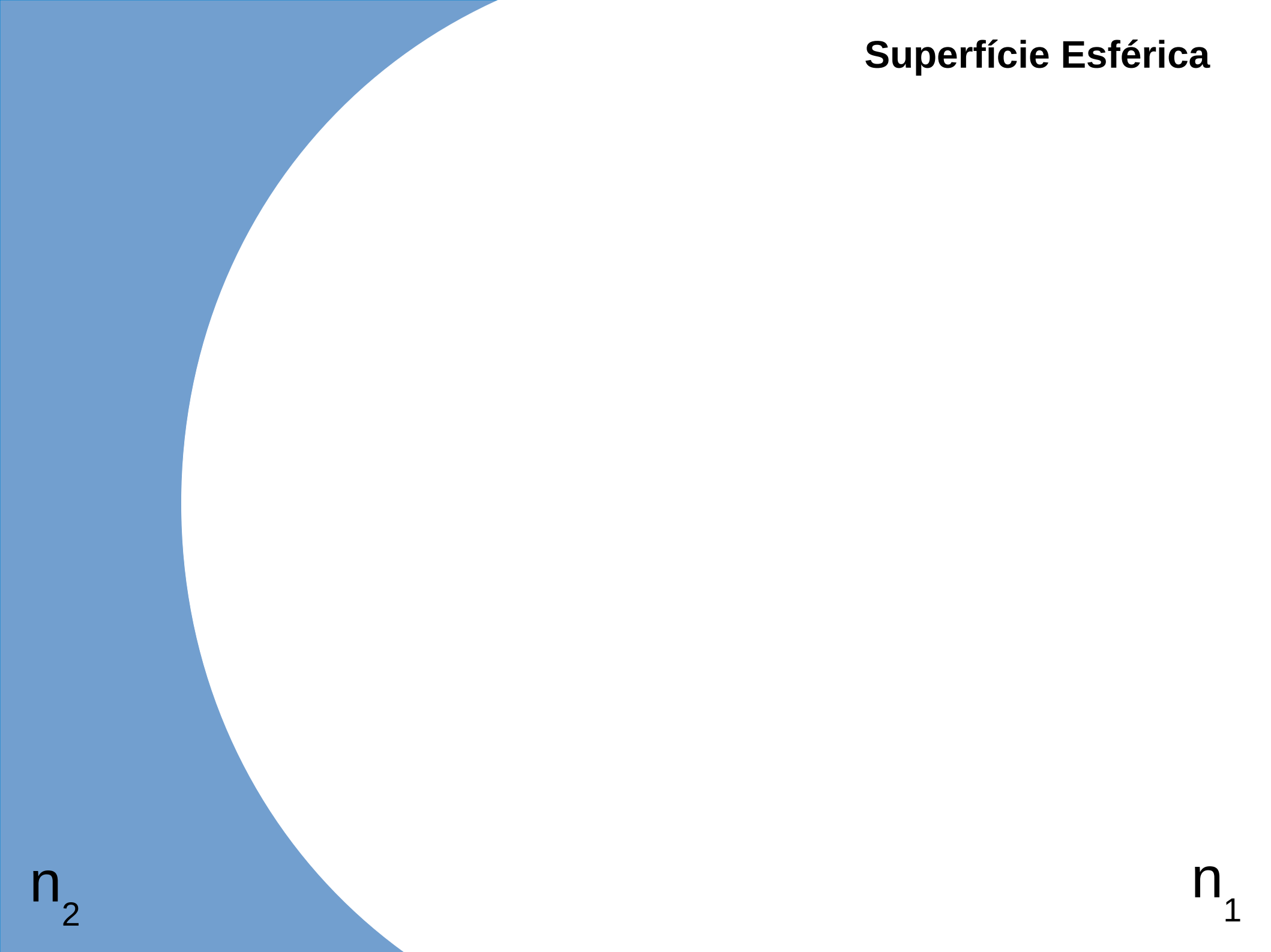


# Refração e Lentes



**Herculano Martinho**  
**1.2018**

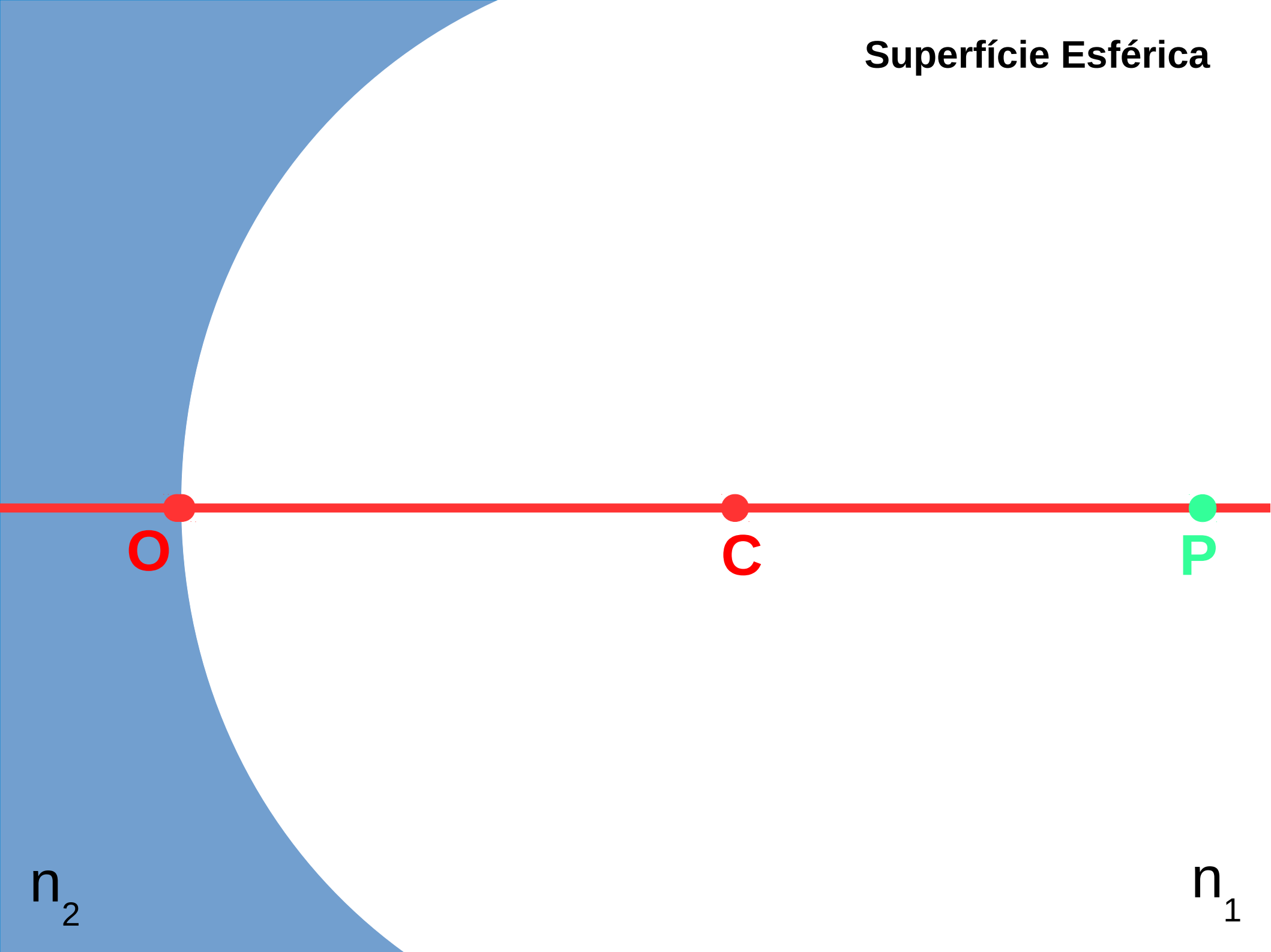
# Superfície Esférica



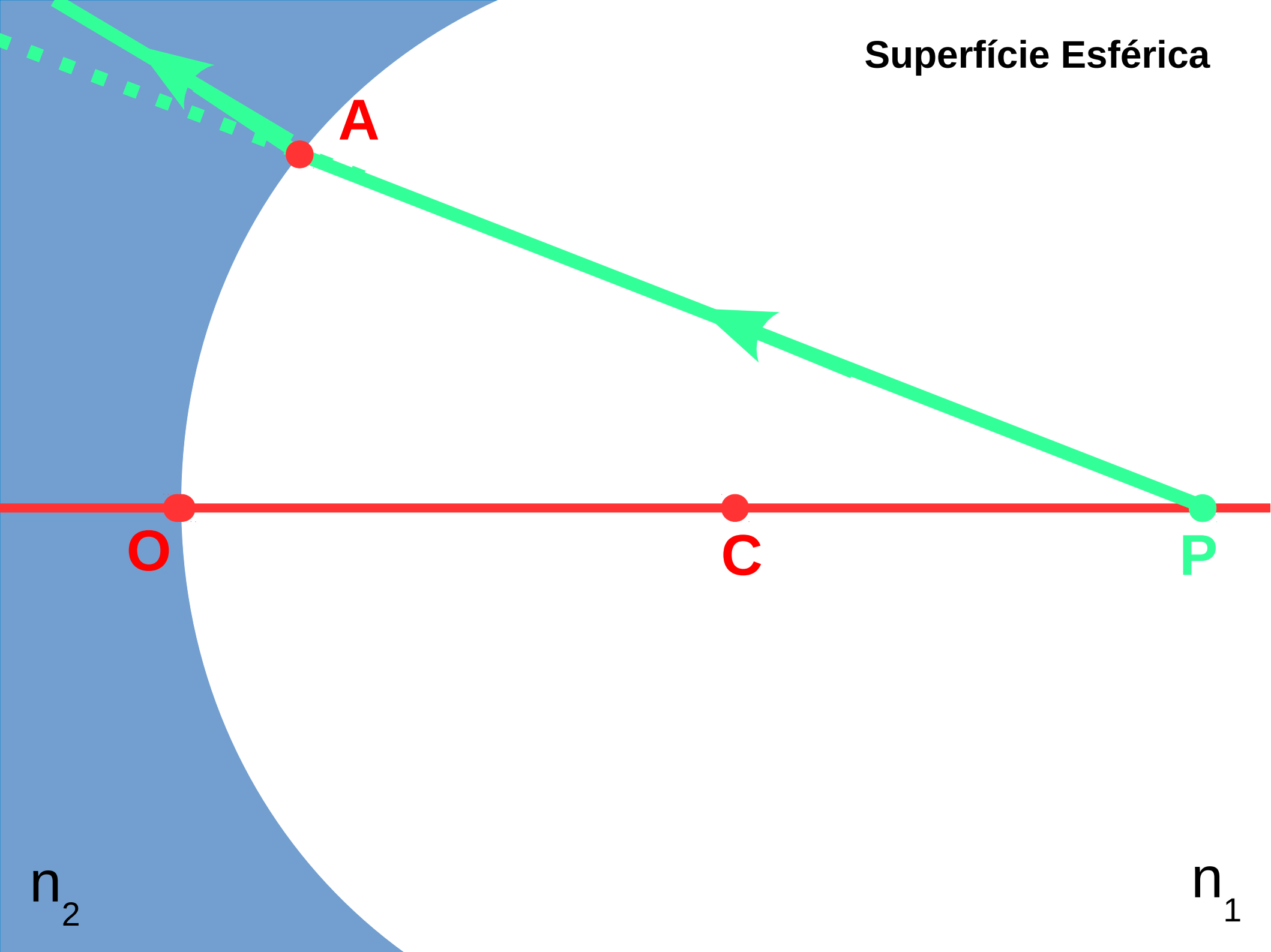
$n_2$

$n_1$

# Superfície Esférica



# Superfície Esférica



**A**

**O**

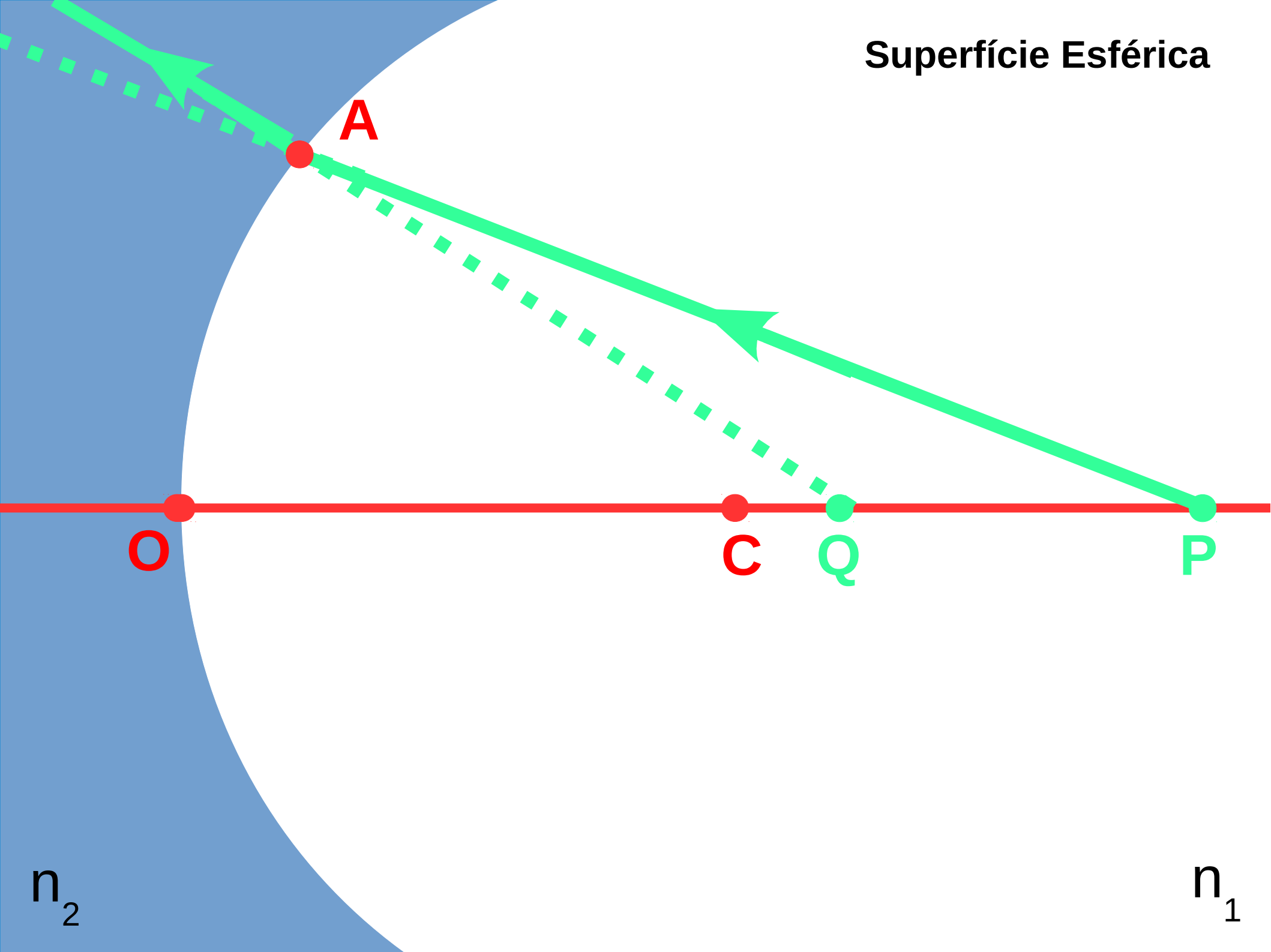
**C**

**P**

$n_2$

$n_1$

# Superfície Esférica



**A**

**O**

**C**

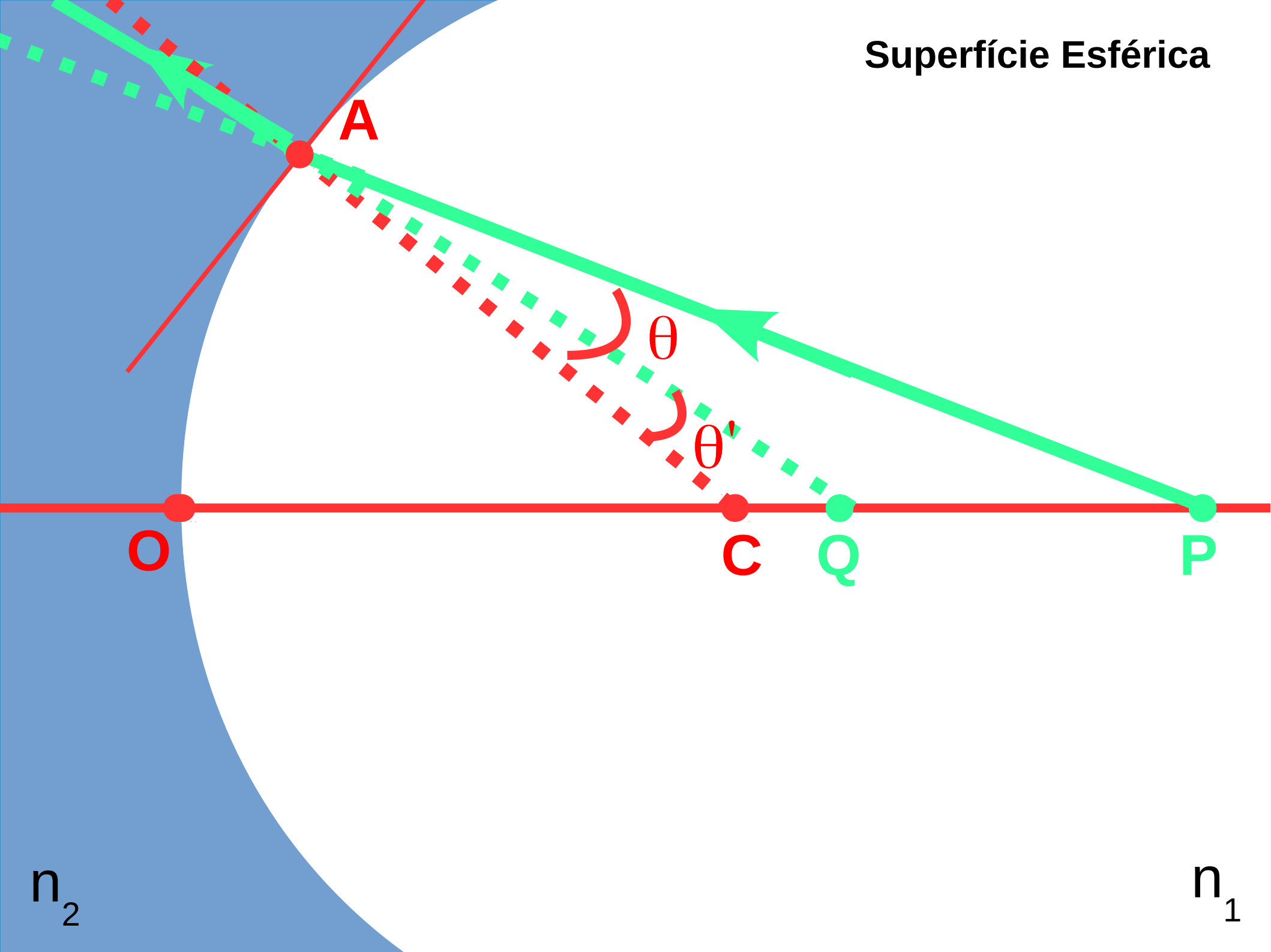
**Q**

**P**

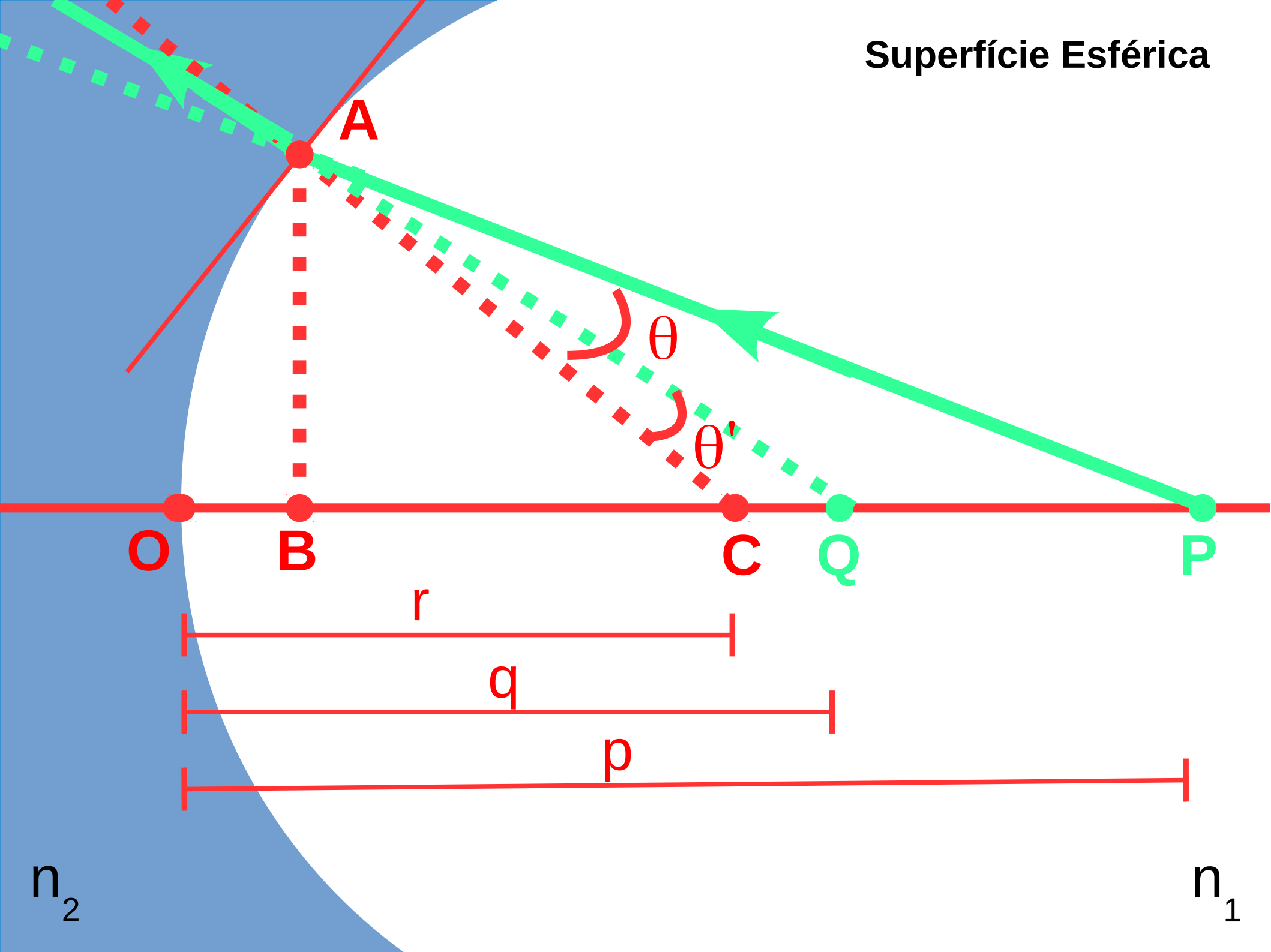
$n_2$

$n_1$

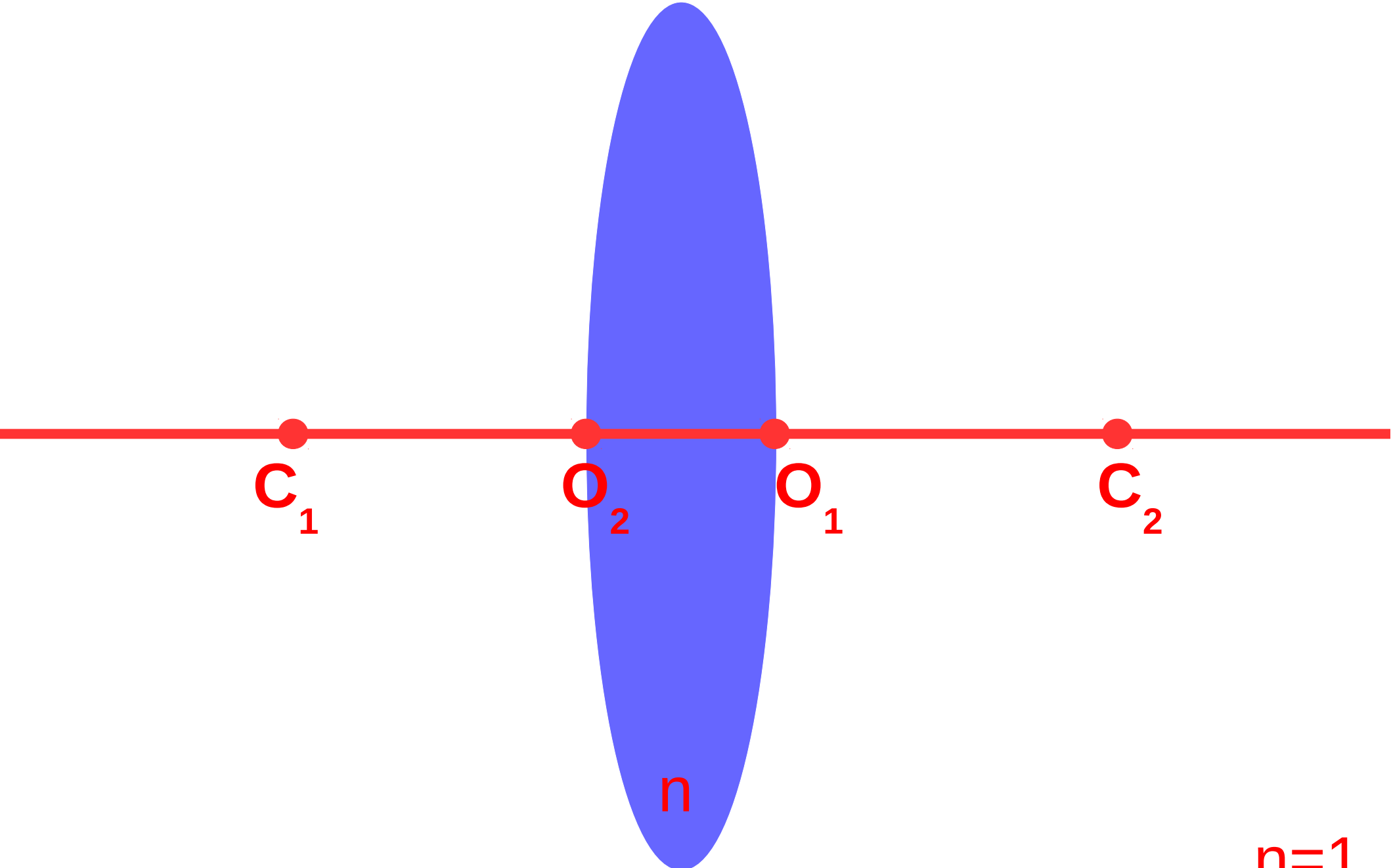
# Superfície Esférica



# Superfície Esférica



Lente



$C_1$

$O_2$

$O_1$

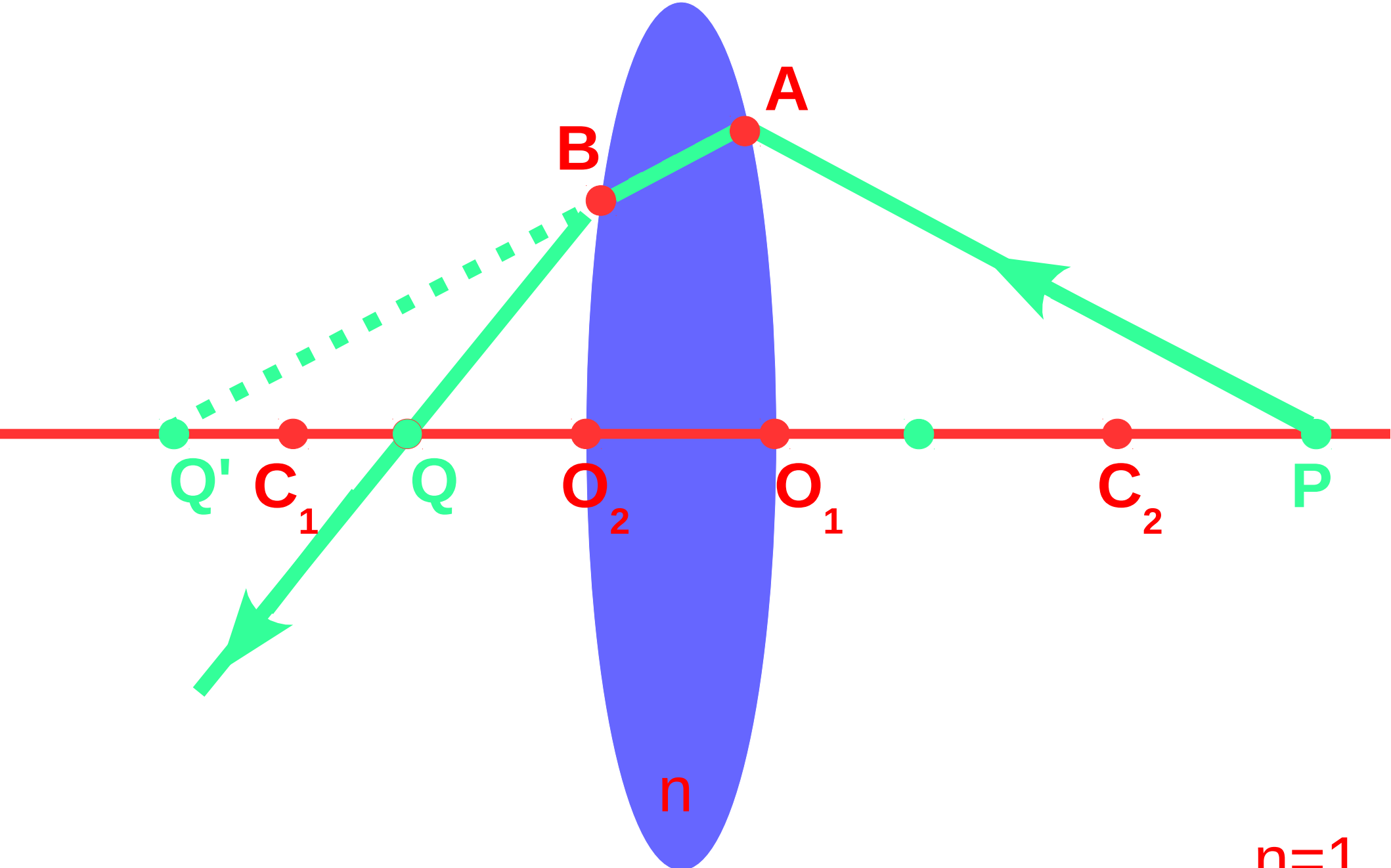
$C_2$

$n$

$n=1$



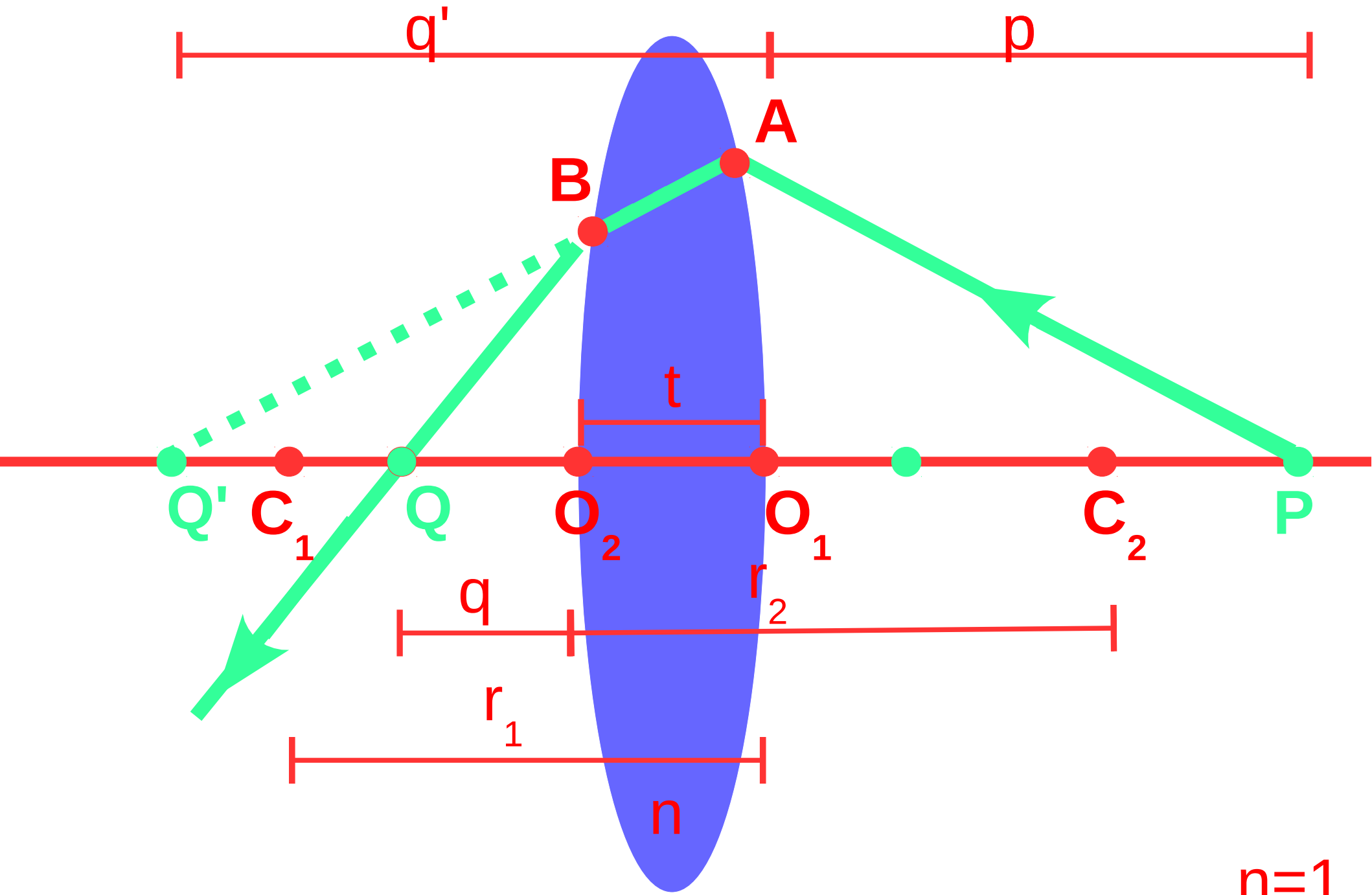
Lente



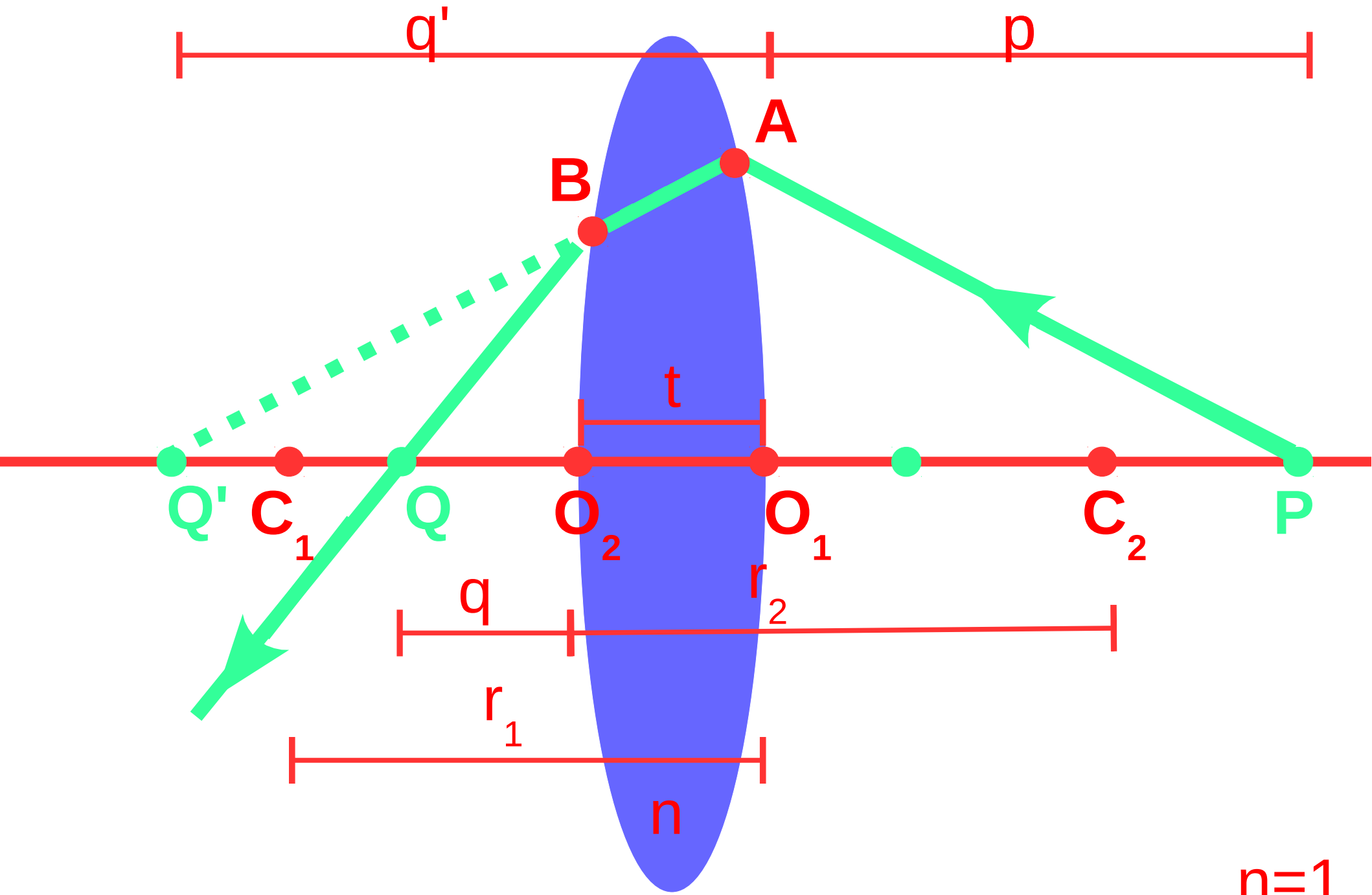
$n$

$n=1$

Lente



Lente



$q'$

$p$

$A$

$B$

$t$

$Q'$

$C_1$

$Q$

$O_2$

$O_1$

$C_2$

$P$

$q$

$r_2$

$r_1$

$n$

$n=1$