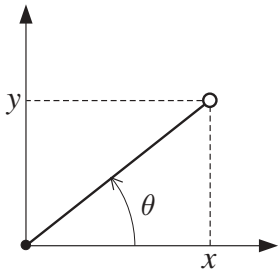


(a)



(b)

Figura 1. Rotação do plano (a); número complexo (b).

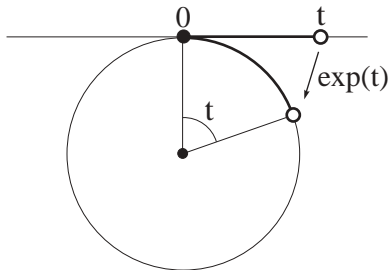
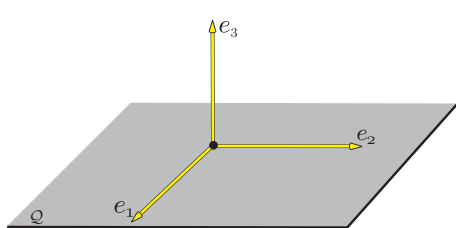
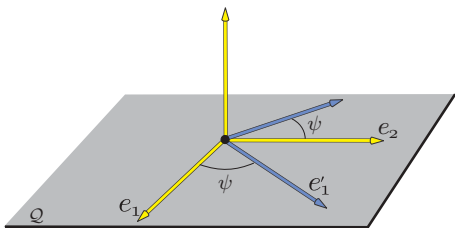


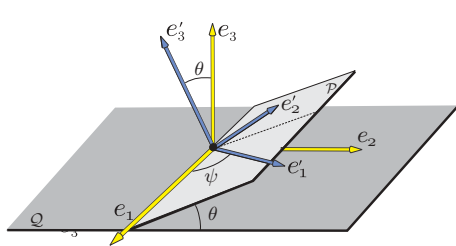
Figura 2. Aplicação exponencial.



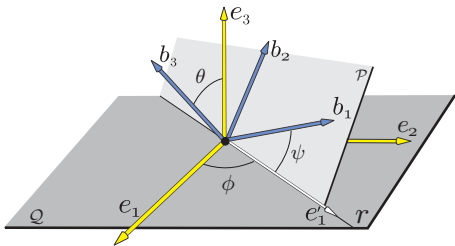
(a)



(b)



(c)



(d)

Figura 3. Ângulos de Euler.

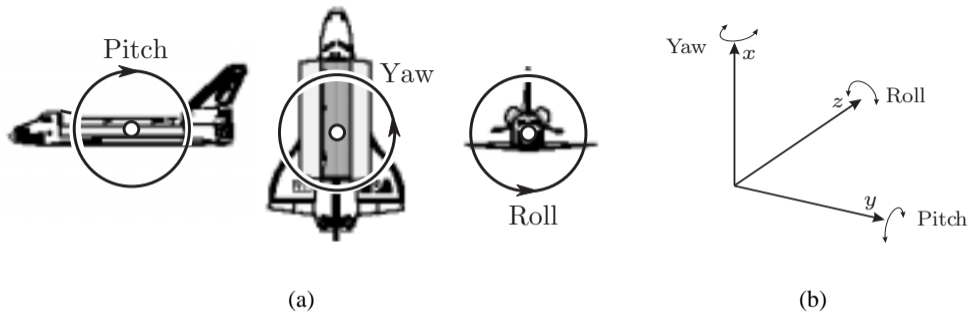


Figura 4. Ângulos de Euler.

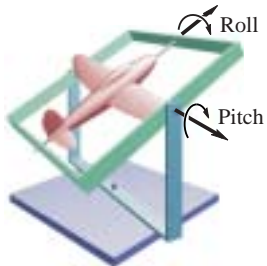


Figura 5. Fenômeno de “gimbal lock”.

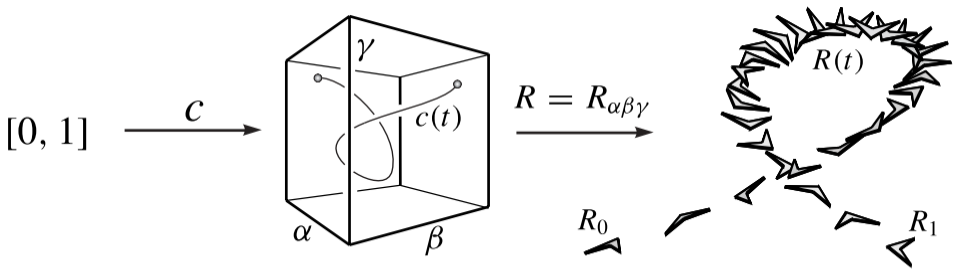


Figura 6. Movimento de um bumerangue interpolando ângulos de Euler.

.	1	i	j	k
1	1	i	j	k
i	i	-1	k	-j
j	j	-k	-1	i
k	k	j	-i	-1

Tabela 1: Multiplicação dos quatérnios da base.

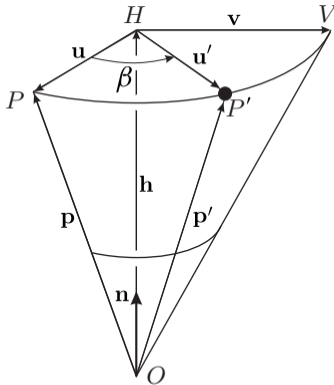


Figura 7. Rotação de ângulo θ em torno do eixo definido pelo vetor \mathbf{n}

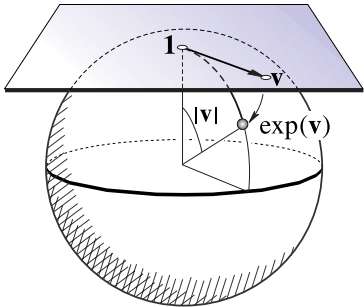


Figura 8. Aplicação exponencial.

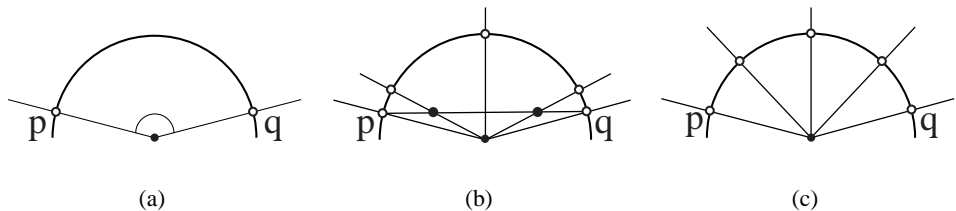
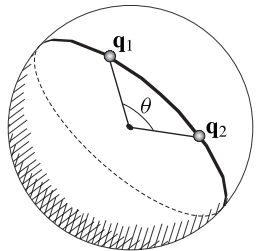
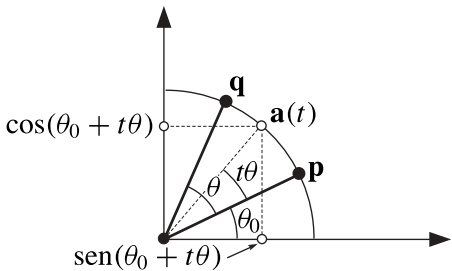


Figura 9. Interpolação de quatérnios.



(a)



(b)

Figura 10. Interpolação linear esférica.