

figure.2.a Spirale exponentielle

$$\lambda(t) = r(t)/R = \exp(-t)$$

avec $\lambda(0) = 1$, $\dot{\lambda}(0) = -1$ et $\theta(t) = \omega t \in [0, 10\pi]$.

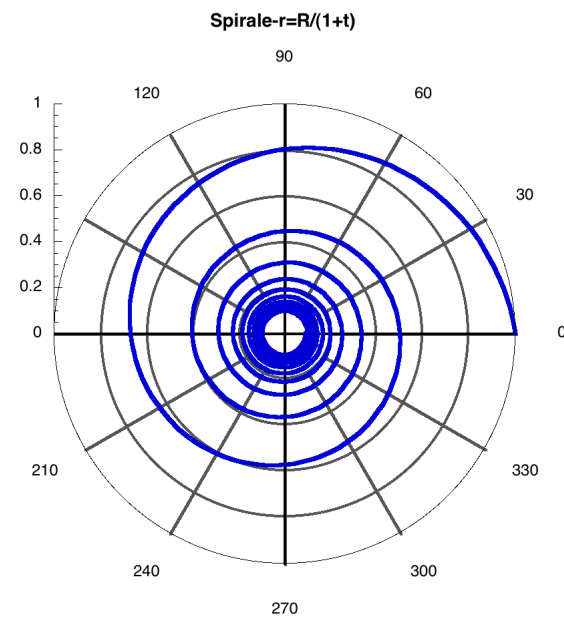


figure.2.b Spirale algébrique

$$\lambda(t) = r(t)/R = 1/(1+t)$$

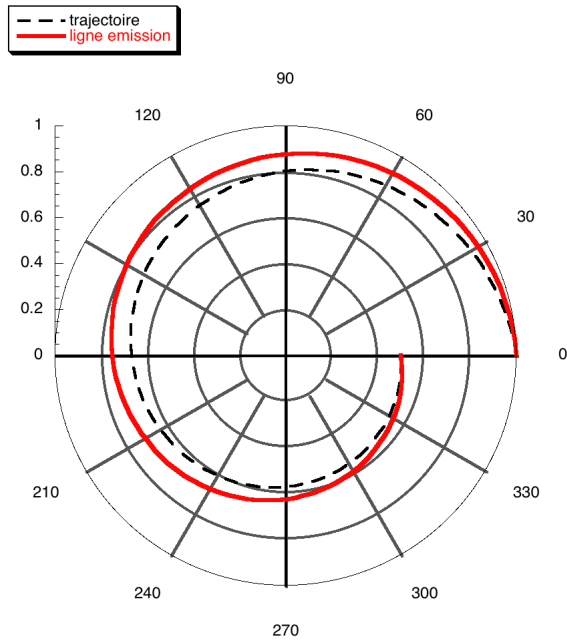


figure.3 Trajectoire et ligne d'émission

$$\lambda(t) = r(t)/R = 1/(1 + t) \text{ avec } \theta(t) = \omega t = 2\pi t \in [0, 2\pi]$$

$$r_{traj}(\theta) = R/(1 + \theta/\omega) \text{ et } r_{emission}(\theta) = (R/2)(2 - \theta/\omega)$$