

未来を解くチカラ

$$A(M_t) = A(M) - 2t \int_M HdA + t^2 \int_M KdA.$$



$$P(B^m) = W_{loc}^s(\tilde{x})$$

$$\frac{d\Phi^E}{ds} = \Phi^E \begin{bmatrix} 0 & -\kappa \\ \kappa & 0 \end{bmatrix}, \quad \kappa = \frac{d\theta}{ds}$$

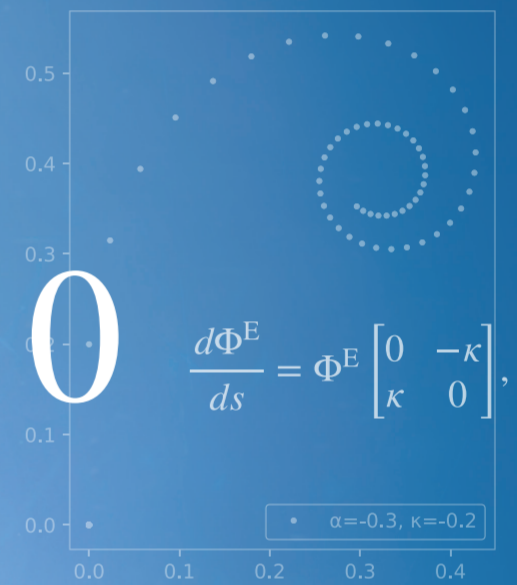
$$\frac{d}{ds} = \frac{1}{q} \frac{d}{d\theta}$$

$$\kappa_i = \frac{1}{2}(\theta_{i+1} - \theta_{i-1})$$

$$\hat{\gamma}_n = \gamma_n + \frac{\delta}{\kappa^2} \left[\left(\cos \kappa - \frac{1}{u_{n-1}} \right) T_n - \sin \kappa N_n \right]$$



$$E(\gamma) = \frac{1}{2} \int_{s_1}^{s_2} \kappa^2 ds$$



$$\kappa'' + \frac{\kappa^3}{2} - \lambda\kappa = 0$$

$$\frac{d}{dX} = \frac{d}{d\theta} = \frac{ds}{d\theta} \frac{d}{ds} = q \frac{d}{ds}$$

$$H_k(\mathbb{X}) \simeq \bigoplus_{i=1}^p ((z^{b_i}) / (z^{d_i})) \oplus \bigoplus_{i=p+1}^{p+q} (z^{b_i})$$

$$\begin{aligned} \min & c^T x \\ \text{s.t.} & Ax \geq b \\ & x \geq 0 \end{aligned}$$

$$q = q_1 \operatorname{sn}(\xi\theta + \eta, k) \operatorname{cn}(\xi\theta + \eta, k)$$

$$\frac{d}{dt}(\theta_{i+1} \mp \theta_i) = C \sin\left(\frac{\theta_{i+1} \pm \theta_i}{2}\right)$$

$$\frac{\partial \kappa}{\partial t} + \frac{3}{2} \kappa \frac{\partial \kappa}{\partial s} + \frac{\partial^3 \kappa}{\partial s^3} = 0 \quad \frac{d\gamma}{ds} = T^E, \quad \Delta^E = R\left(\frac{\kappa}{2}\right)T^E, \quad \|T^E\| = 1$$

$${}_2F_1\left(\begin{matrix} a, b \\ c \end{matrix} \middle| x\right) = \frac{1}{B(a, c-a)} \int_0^{1-x} t^{a-1} (1-t)^{c-a-1} (1-tx)^{-b} dt$$

$$\frac{\partial \gamma}{\partial t} = f(\theta, t)T^E + g(\theta, t)N^E$$

$\alpha = 0.0$
Nielsen's spiral



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日本初の産業数学の研究所として
多様な数学研究を基礎とした新しい産学連携の拠点

The Institute of Mathematics for Industry (IMI) at Kyushu University was founded in April 2011 as the first institute in Japan for industrial mathematics based on diverse fields of mathematics research.