

April

18

(Sarah)

$$\frac{D}{h_t}=$$

$h$

$\frac{D}{D}$

$$\frac{D}{L_0+}$$

$h_t$

$h_t$

$t$

$h_t$

$i$

$$(D)=$$

0

$\frac{D}{D}$

$D_s$

$$\frac{D_0}{D_0}=$$

$$\frac{ddt}{ddt}+$$

$$\frac{L_0}{L_0}+$$

$h_-$

$$\frac{D_1}{D_1}=$$

$\frac{D}{D}$

$$\frac{L_0}{L_0}+$$

$h_-$

$t_-$

$$\frac{t_0}{L_0}+$$

$h_-$

$$\frac{L_0}{L_0}+$$

$h_t$

$$\frac{L_0}{L_0}+$$

$h_{t_0}$

$t_-$

$t_+$

$$\frac{L_0}{L_0}+$$

$h_-$

$$\frac{L_0}{L_0}+$$

$h_t$

$$\frac{L_0}{L_0}+$$

$h_+$

$$(D)=$$

$$(D_0)$$

$D_0$

0

$$\frac{L_0}{L_0}+$$

$h_t$

$h_t$

$$\lambda_1(t),\ldots,\lambda_n(t)$$

0

$$u_1(t),\ldots,u_n(t)$$

$y$

$$D=ddt+(\text{ ) array}c|cA(t)$$

$$\lambda(t)$$

$$\lambda(t)=(\lambda)_1(t)-\lambda_n(t)$$

$A$

$$\ker(D)$$

$f\in$

$$\ker(D)$$

$f=$

$$c_1u_1+$$

$c_1$

$$c_1,\ldots,c_n$$

$t$

$f\in$

$$\ker(D)$$

$k(t)$

$(L_0+$

$$h_t)(c_k(t)u_k(t))$$

$$\overline{k}=1ndc_kdt(t)u_k(t)+$$

$$c(t)dudt(t)+$$

$$c_k(t)\lambda_k(t)u_k(t).$$

$\lambda_i$

$u_i$

$h_t$

$$\begin{array}{c} h^*\\ h_t-\\ h_*\\ \overline{D}\\ h_t\end{array}$$

$$\begin{array}{c} (s,t)\\ \times S^1\\ \overline{D}:\\ L^2_1(\times S^{1,\,2n})L^2(\times S^{1,\,2n})\\ D=\partial\partial s+J_0\partial\partial t+S,\end{array}$$

$$\begin{array}{c} J_0\\ 2n\\ S=\\ S(s,t)\\ \partial S\partial s(s,t)=0\end{array}$$

$$\begin{array}{c} |s|\gg\\ \downarrow\\ 2n\\ \omega_{st}=\\ \langle \cdot,J_0\cdot\rangle\\ Sp(2n)\\ sp(2n)\sim Symm\\ \overrightarrow{A}\mapsto\\ J_0\overrightarrow{A}\\ S(s,t)\\ t\\ \Psi:\\ \times \dot{Sp}(2n)\\ d\Psi dt=J_0S\Psi and \Psi(s,0)=I.\end{array}$$

$$\begin{array}{c} T\\ \Psi(-s,t)=\\ \Psi(-T,t)\\ \Psi(s,t)=\\ \Psi(T,t)\\ \frac{s}{T}>\\ \Psi(-T,t)\\ \Psi(s,t)\\ \Psi(T,t)\\ \Psi(s,0)=\\ I\\ \Psi(s,1)\\ \gamma:\\ [0,1]Sp(2n)\\ \gamma(0)=\\ I\\ \frac{1}{T}\\ \gamma(1)\\ \mu_{CZ}(\gamma)\in\\ Sp^*(2n)\\ \frac{1}{Sp(2n)\backslash}\\ Sp^*(2n)\\ \bullet\\ \mu_{CZ}\\ \gamma\\ Sp^*(2n)\\ M\\ \det(I-\\ M)\\ B_+^+=\\ -I\end{array}$$

$$B_- = \left( \begin{array}{cc} 2 & 12-1 \end{array} \right) -1.$$

$$\begin{array}{c} \gamma\\ \gamma(1)\in\\ Sp^*(2n)\\ \tilde{\gamma}\\ \tilde{\gamma}\backslash\\ \gamma\\ \tilde{\gamma}(1)=\\ B_{\pm}\\ U(n)=\\ Sp(2n)\cap\\ O(2n)\\ U(n)\\ Sp(2n)\\ \rho:\\ Sp(2n)II(n)\end{array}$$