6. Eta $W = \mathbb{R} \times \mathbb{R}^{2n}$

$$\begin{array}{ccccc}
\Psi^{-\infty}_{1,\mathrm{iso}}(n) & \hookrightarrow & \Psi^{0}_{1,\mathrm{iso}}(n) & \longrightarrow & A^{0}_{1,\mathrm{iso}}(n) \\
\| & & \| & & \| \\
\dot{C}^{\infty}(\bar{W}) & \hookrightarrow & C^{\infty}(\bar{W}) & \longrightarrow & C^{\infty}(\Sigma W)[[\hbar]] \\
\uparrow & & \uparrow & & \uparrow \\
G^{-\infty}_{1,\mathrm{iso}}(W) & \hookrightarrow & G^{0}_{1,\mathrm{iso}}(n) & \longrightarrow & E^{0}_{1,\mathrm{iso}}(n)
\end{array}$$

If

$$\begin{array}{ccccc}
G^{-\infty}_{\mathrm{iso}}(n) & \hookrightarrow & G^{0}_{\mathrm{iso}}(n) & \longrightarrow & E^{0,0}_{\mathrm{iso}}(n) \\
\downarrow \det & & \| & & \uparrow \\
\mathbb{C}^{*} & & \mathbb{C}^{\times} & \xrightarrow{\sim} & \mathbb{L} \quad \text{determinant bundle}
\end{array}$$

- $\Psi^{0}_{1,\mathrm{iso}}(n)$ has a unique translation-invariant trace Tr_R 'residue trace' descends to $A^{0}_{1,\mathrm{iso}}(n)$
- Tr_I on $\Psi^{-\infty}_{1,\mathrm{iso}}(n)$ extends to a trace, not translation-invariant

$$\overline{\mathrm{Tr}}_I(D_{\hbar} P) = \mathrm{Tr}_R(P)$$

$\overline{\mathrm{Tr}}_I$