$$\hbar \rtimes G \xrightarrow[\text{diff}]{} \hbar$$

$$T^{\sharp}\,\hbar \rtimes G \xrightarrow[\text{plex}]{} T^{\sharp}\,\hbar$$

$$\begin{tikzcd}
T^{\sharp}\hbar \arrow[r, "\pi"] \arrow[rr, bend right, "G\ \text{inv}" near end, "\pi \ltimes \daleth"'] & \hbar \arrow[r, "\daleth", "G\ \text{inv}"'] & \mathbb{R}
\end{tikzcd}$$

$$\underbrace{\pi \ltimes \daleth} \times \underbrace{\pi \ltimes \daleth} = 0$$

$$\overset{+}{\mathfrak{g}} : \text{♩}\ \text{moment Frobenius}$$

$$\begin{tikzcd}
T^{\sharp}\hbar \arrow[r, "\Phi"] & \overset{+}{\mathfrak{g}} \\
\cup & \cup \\
\Phi\mathcal{O} \arrow[r, "\Phi"] & \mathcal{O}
\end{tikzcd}$$

null-foliation

$$\underline{\Phi\mathcal{O}}_{\mathsf{h}}^{0} = \frac{\mathsf{b}_{\mathsf{h}} \in \underline{\Phi\mathcal{O}}_{\mathsf{h}}}{\mathsf{b}_{\mathsf{h}}\,{}^{\mathsf{h}}\overbrace{\Phi \ltimes \text{♩}} = \underbrace{\mathsf{b}_{\mathsf{h}}\,{}^{\mathsf{h}}\underline{\Phi}}_{\mathsf{h} \ltimes \Phi}\text{♩} = 0}$$

$$\mathsf{b} : \mathsf{t} \in \underline{\Phi\mathcal{O}}^{0} \Longrightarrow \mathsf{b} \times \mathsf{t} \in \underline{\Phi\mathcal{O}}^{0}$$

$$d\left(\Phi \ltimes \text{♩}\right) = \Phi \ltimes d\text{♩} = 0$$

$$0 = (\mathsf{b}\mathsf{t}\mathsf{t})\,d\left(\Phi \ltimes \text{♩}\right) = (\mathsf{b}\mathsf{t}\mathsf{t})\,d\left(\Phi \ltimes \text{♩}\right) + (\mathsf{b}\mathsf{t}\mathsf{t})\,d\left(\Phi \ltimes \text{♩}\right) + (\mathsf{b}\mathsf{t}\mathsf{t})\,d\left(\Phi \ltimes \text{♩}\right)$$

$$\text{Vor}\ \underline{\Phi}_{\mathsf{h}}\,\underline{\mathcal{O}}_{\mathsf{h}\Phi} = \underline{\Phi\mathcal{O}}_{\mathsf{h}}$$

$$\dim\ \underline{\Phi\mathcal{O}}_{\mathfrak{h}}^{0} = \text{ cst } \implies \Phi\mathcal{O} \xrightarrow{\pi} \overline{\Phi\mathcal{O}} = \Phi\mathcal{O}/\underline{\Phi\mathcal{O}}^{0} \text{ integrable}$$

$$\begin{tikzcd}
 & & \overset{+}{\mathfrak{g}}{:}\mathsf{J} \\
\Phi\mathcal{O} \arrow[urr, "\Phi"] \arrow[drr, "\pi"'] & \Phi \ltimes \mathsf{J} = \pi \ltimes \bar{\mathsf{J}} & \\
 & & \overline{\Phi\mathcal{O}}{:}\bar{\mathsf{J}}
\end{tikzcd}$$

$$\text{co-isotropic } \overbrace{\underline{\Phi\mathcal{O}}_{\mathfrak{h}}{}^{\mathfrak{h}}\underline{\Phi}}^{\perp} \sqsubset \underline{\Phi\mathcal{O}}_{\mathfrak{h}}{}^{\mathfrak{h}}\underline{\Phi} \sqsubset \overset{+}{\mathfrak{g}}{}^{\mathfrak{h}}\,\underline{\Phi}$$

$$\begin{tikzcd}
 & \overset{+}{\mathfrak{g}} \arrow[dr, "\mathsf{J}"] & \\
\Phi\mathcal{O} \arrow[ur, "\Phi"] \arrow[rr, "\Phi \ltimes \mathsf{J}", "\pi \ltimes \bar{\mathsf{J}}"'] \arrow[dr, "\pi"'] & & \mathbb{R} \\
 & \Phi\bar{\mathcal{O}} \arrow[ur, "\bar{\mathsf{J}}"'] &
\end{tikzcd}$$

$$\begin{cases} \Phi \ltimes \mathsf{J} = \pi \ltimes \bar{\mathsf{J}} \\ \Phi \ltimes \text{Ɉ} = \pi \ltimes \bar{\text{Ɉ}} \end{cases} \implies \Phi \ltimes \underbrace{\mathsf{J} \bowtie \text{Ɉ}} = \pi \ltimes \underbrace{\bar{\mathsf{J}} \bowtie \bar{\text{Ɉ}}}$$