

$$\begin{array}{ccc}
\mathfrak{h} \rtimes G & \xrightarrow{\text{diff}} & \mathfrak{h} \\
T^\sharp \mathfrak{h} \rtimes G & \xrightarrow{\text{plex}} & T^\sharp \mathfrak{h} \\
T^\sharp \mathfrak{h} & \xrightarrow{\pi} & \mathfrak{h} & \xrightarrow{\gamma} & \mathbb{R} \\
& \searrow & & \swarrow & \\
& & G \text{ inv} & & \\
& & \pi \ltimes \gamma & & \\
& & \underline{\pi \ltimes \gamma} * \underline{\pi \ltimes \gamma} = 0 & &
\end{array}$$

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

$$\begin{array}{ccc}
T^\sharp \mathfrak{h} & \xrightarrow{\Phi} & \overset{+}{\mathfrak{g}} \\
\uparrow & & \uparrow \\
\Phi \mathcal{O} & \xrightarrow{\Phi} & \mathcal{O}
\end{array}$$

null-foliation

$$\frac{\Phi \mathcal{O}_h^0 = \overset{+}{\mathfrak{b}}_h \in \underline{\Phi \mathcal{O}}_h}{\overset{+}{\mathfrak{b}}_h \overset{+}{\Phi} \ltimes \overset{+}{\mathbf{J}} = \underbrace{\overset{+}{\mathfrak{b}}_h}_{\overset{+}{\Phi}} \underset{h}{\ltimes} \Phi \mathbf{J} = 0}$$

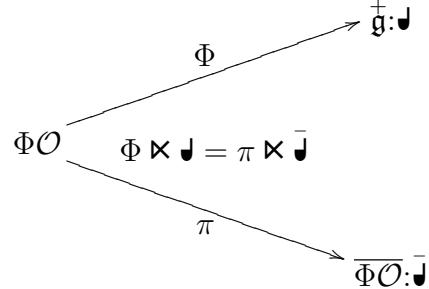
$$\overset{+}{\mathfrak{b}} \cdot \overset{+}{\mathfrak{t}} \in \underline{\Phi \mathcal{O}}^0 \Rightarrow \overset{+}{\mathfrak{b}} \times \overset{+}{\mathfrak{t}} \in \underline{\Phi \mathcal{O}}^0$$

$$d(\Phi \ltimes \mathbf{J}) = \Phi \ltimes d\mathbf{J} = 0$$

$$0 = (\overset{+}{\mathfrak{b}} \overset{+}{\mathfrak{t}} \overset{+}{\mathfrak{b}}) d(\Phi \ltimes \mathbf{J}) = (\overset{+}{\mathfrak{b}} \overset{+}{\mathfrak{t}} \overset{+}{\mathfrak{b}}) d(\Phi \ltimes \mathbf{J}) + (\overset{+}{\mathfrak{b}} \overset{+}{\mathfrak{t}} \overset{+}{\mathfrak{b}}) d(\Phi \ltimes \mathbf{J}) + (\overset{+}{\mathfrak{b}} \overset{+}{\mathfrak{t}} \overset{+}{\mathfrak{b}}) d(\Phi \ltimes \mathbf{J})$$

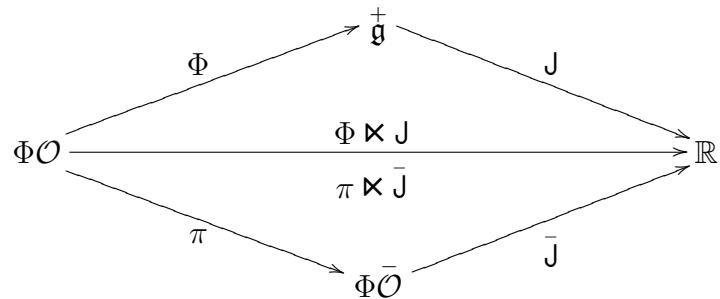
$$\text{Vor } \underline{\Phi}_h \underline{\mathcal{O}}_{h\Phi} = \underline{\Phi \mathcal{O}}_h$$

$\dim \underline{\Phi\mathcal{O}}^0_h = \text{cst} \Rightarrow \Phi\mathcal{O} \xrightarrow{\pi} \overline{\Phi\mathcal{O}} = \Phi\mathcal{O}/\underline{\Phi\mathcal{O}}^0$ integrable



GS/175

$$\text{co-isotropic } \overbrace{\underline{\Phi\mathcal{O}}_h^h \Phi}^{\perp} \subset \underline{\Phi\mathcal{O}}_h^h \Phi \subset \overline{\underline{\Phi\mathcal{O}}_h^h \Phi}$$



$$\begin{cases} \Phi \bowtie J = \pi \bowtie \bar{J} \\ \Phi \bowtie J = \pi \bowtie \bar{J} \end{cases} \Rightarrow \Phi \bowtie \underbrace{J \times J}_{\mathfrak{t}} = \pi \bowtie \underbrace{\bar{J} \times \bar{J}}_{\bar{\mathfrak{t}}}$$

GS/176