

WINTER LOCAL LANGLANDS Wh-5

ABSTRACT. Literally what was written on the boards, and nothing else.

$$\begin{array}{ccc} \mathbf{KL}(G)_{-\kappa} & \xrightarrow{FLE_G} & \mathbf{Whit}_{-\tilde{\kappa}}(\mathbf{Gr}_{\check{G}}) \\ \downarrow j_!^{KM, Lus} & & \downarrow j_!^{Whit, Lus} \\ \mathbf{KL}(T)_{-\kappa} & \xrightarrow{FLE_T} & \mathbf{Whit}_{-\tilde{\kappa}}(\mathbf{Gr}_{\check{T}}) \end{array}$$

$$\begin{array}{ccc} \mathbf{KL}(G)_{-\kappa} & \xrightarrow{FLE_G} & \mathbf{Whit}_{-\tilde{\kappa}}(\mathbf{Gr}_{\check{G}}) \\ \downarrow j_!^{KM} \downarrow j_{!*}^{KM} & & \downarrow j_!^{Whit} \downarrow j_{!*}^{Whit} \\ \mathbf{KL}(T)_{-\kappa} & \xrightarrow{FLE_T} & \mathbf{Whit}_{-\tilde{\kappa}}(\mathbf{Gr}_{\check{T}}) \end{array}$$

$$\begin{array}{ccc} \mathbf{KL}(G)_{\kappa} & \xrightarrow{F\tilde{L}E_G} & \mathbf{Whit}_{\tilde{\kappa}}(\mathbf{Gr}_{\check{G}}) \\ \downarrow j_!^{KM} \downarrow j_{!*}^{KM} & & \downarrow j_!^{Whit} \downarrow j_{!*}^{Whit} \\ \mathbf{KL}(T)_{\kappa} & \xrightarrow{F\tilde{L}E_T} & \mathbf{Whit}_{\tilde{\kappa}}(\mathbf{Gr}_{\check{T}}) \end{array}$$

$$\begin{array}{ccc} j_{\{!, !*\}}^{KM} : \hat{\mathfrak{g}} - \mathbf{Mod}_{\kappa}^{\mathfrak{L}\mathfrak{G}^+} & \xrightarrow[\phi_{!*}]{\phi_!} & (\hat{\mathfrak{g}} - \mathbf{Mod}_{\kappa})_{\mathfrak{L}(\mathfrak{N}^-)\mathfrak{L}\mathfrak{T}^+} \xrightarrow{C_*} (\hat{\mathfrak{t}} - \mathbf{Mod}_{\kappa})_{\mathfrak{L}\mathfrak{T}^+} \\ \parallel & & \parallel \\ \mathbf{KL}(G)_{\kappa} & & \mathbf{KL}(T)_{\kappa} \end{array}$$

$$\mathbf{Dmod}(\mathbf{Gr}_G)_{\mathfrak{L}(\mathfrak{N}^-)\mathfrak{L}\mathfrak{T}^+} \xrightarrow{\sim} \mathbf{Dmod}(\mathbf{Gr}_G)^{\mathfrak{L}\mathfrak{N}\mathfrak{L}\mathfrak{T}^+}.$$

$$S_{Ran}^0 \hookrightarrow \overline{S_{Ran}^0}$$

$$j_!(\omega_{S_{Ran}^0}) \quad \mathbf{IC}^{\frac{\infty}{2}}$$

$$\begin{array}{ccc} \mathbf{Dmod}(\mathbf{Gr}_G)_{\mathfrak{L}(\mathfrak{N}^-)\mathfrak{L}\mathfrak{T}^+} & \xrightarrow{\sim} & \mathbf{Dmod}(\mathbf{Gr}_G)^{\mathfrak{L}\mathfrak{N}\mathfrak{L}\mathfrak{T}^+} \\ & \uparrow & \\ & \mathbf{Dmod}(\overline{S^0})^{\mathfrak{L}\mathfrak{N}\mathfrak{L}\mathfrak{T}^+} & \end{array}$$

$$\begin{array}{c} \mathbf{Whit}^!_{\kappa}(\mathbf{Gr}_G) \\ \downarrow j^{\text{white}}_* \downarrow j^{\text{white}}_! \\ \mathbf{Dmod}(\mathbf{Gr}_T) \\ S^{-,\lambda} \xhookrightarrow{j} \overline{S^{-,\lambda}} \end{array}$$

$$j_!(\omega_{S^{-,\lambda}}) \qquad \mathbf{IC}^{\frac{\infty}{2}+\lambda}$$

$$\mathcal{F} \mapsto \qquad \Gamma_{dR}(\mathbf{Gr}_G, \mathcal{F} \otimes -)$$