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DATE 95 / 3 / 19

$$\int_{|z_1|=\epsilon_1} \frac{\partial f_1}{z_2^3}\, dz_1 = 0$$

$\Rightarrow$ $\mathrm{Res}_p\left(\frac{\eta\psi}{s\cdot s'}\right)$ is independent of the choice of representative of $\mathcal{O}_p(L)_p = \mathcal{O}(L)_p / \mathcal{J}_p(L)_p$ $\Rightarrow$

$\mathrm{Res}_p\left(\frac{\eta\psi}{s\cdot s'}\right)$ has intrinsic meaning. ⌟

Because duality is functorial, we deduce that

$$\rho(\psi)(\eta) = \mathrm{Res}_p\left(\frac{\eta\psi}{s\cdot s'}\right).$$

⌜ First.