Cheat Sheet J on March 18, 9:27AM

March-18-13
9:27 AM

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Cheat Sheet J

http://drorbn.net/AcademicPensieve/2013-03/
initiated March 18, 2013; completed ???; modified March 18, 2013

CRC equation t: $$tm_w^{uv} /\!\!/ RC_w^{\gamma /\!\!/ tm_w^{uv}} = RC_u^{\gamma} /\!\!/ RC_v^{\gamma /\!\!/ RC_u^{\gamma}} /\!\!/ tm_w^{uv}$$

CRC equation h: $$RC_u^{\mathrm{bch}(\alpha,\beta)} = RC_u^{\alpha} /\!\!/ RC_u^{\beta /\!\!/ RC_u^{\alpha}}$$

The definition of J: $$J_u(\gamma) := \int_0^1 ds\ \mathrm{div}_u(\gamma /\!\!/ RC_u^{s\gamma}) /\!\!/ C_u^{-s\gamma}$$

The t equation: (wanted) $$J_u(\gamma /\!\!/ tm_w^{uv}) /\!\!/ RC_w^{\gamma /\!\!/ tm_w^{uv}} = J_u(\gamma) /\!\!/ tm_w^{uv} /\!\!/ RC_w^{\gamma /\!\!/ tm_w^{uv}} + J_v(\gamma /\!\!/ RC_u^{\gamma}) /\!\!/ RC_v^{\gamma /\!\!/ RC_u^{\gamma}} /\!\!/ tm_w^{uv}$$

The h equation: (wanted) $$J_u(\mathrm{bch}(\alpha,\beta)) = J_u(\alpha) + J_u(\beta /\!\!/ RC_u^{\alpha}) /\!\!/ C_u^{-\alpha}$$

Add: $\mathrm{div}_w(\gamma /\!\!/ tm_w^{uv}) = (\mathrm{div}_u(\gamma) + \mathrm{div}_v(\gamma)) /\!\!/ tm_w^{uv}$

The cocycle property of div.

The relationship with JA, the ODE for JA

Definitions of j, j's cocycle property

$\int \exp$

$\int \mathrm{bch}(\alpha,\beta)$

$\int C_u^{\gamma}$

$\int RC_u^{\gamma}$