Max bei: $\log a + \frac{1}{s-1} + \frac{\mathcal{D}'}{\mathcal{D}}(s) + \frac{1}{s} = 0$

$\rightsquigarrow$ Resultat: $\blacksquare$

Interpretation:

Nimm an $\mathcal{D}(s) = \mathcal{D}(1-s)$

$$a_0 = \operatorname{Res}_{s=1} \mathcal{D}(s) = -\operatorname{Res}_{s=0} \mathcal{D}(s)$$

also $g(s) = \mathcal{D}(s)\, s\,(s-1)$ holom., $g(0) = a_0$.

Nimm an $G(s) = \log g(s)$ definiert und

$$\frac{G(s) - G(0)}{s} \leq G'(s) \qquad (\text{etwa } s > 1)$$

dann also

$$\cancel{a_0 = \log G(0) \geq G(s) \cdot \exp(-s\, G'(s)) = s(s-1)\, \mathcal{D}(s)\, \exp\left(-1 - \frac{s}{s-1} - s \frac{\mathcal{D}'}{\mathcal{D}}(s)\right)}.$$

$$\log a_0 \geq G(s) - s\, G'(s)$$
$$= \log\left[s(s-1)\,\mathcal{D}(s)\right] - \left(1 + \frac{s}{s-1} + s\,\frac{\mathcal{D}'}{\mathcal{D}}(s)\right)$$