

The Challenge

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Compute $\Phi_* Z$, where $R = \mathbb{Q}(T_i = e^{t_i} = e^{\partial_{t_i}})$

$$Z = W \exp\left(\sum \lambda_{ij} t_i a_j + \sum \gamma_{ij} y_i x_j + \epsilon P\right)$$

where $\lambda_{ij} \in \mathbb{Z}$, w & γ_{ij} are scalars in R
and where P is a polynomial in
 a_i, y_i, x_i w/ coefficients in R

and where Φ is defined by