complete characterization of the wave- and τ-functions of differential equations.

4. Finally we mention a few words on the introduction of the parameter $\Lambda={}^t\Lambda=(\lambda_{\mu\nu})_{\mu,\nu=1,\cdots,n}$. We assume $\lambda_{\nu\nu}=1$ ($\nu=1,\cdots,n$) and that Λ is real, positive definite. In place of (3) we set the following monodromic property for an n-tuple $w=(w^{(1)},\cdots,w^{(n)})$

(22) $$\gamma w=w\cdot\rho_{l_1,\cdots,l_n,\Lambda}(\gamma),\qquad \gamma\in\pi_1(X';x_0)$$

where $\rho_{l_1,\cdots,l_n,\Lambda}(\gamma_\nu)=1+(e^{-2\pi i l_\nu}-1)E_\nu\Lambda$, $E_\nu=(\delta_{\mu\nu}\delta_{\mu'\nu})_{\mu,\mu'=1,\cdots,n}$. Using (22) we define $W^{l_1,\cdots,l_n}_{*,a_1,\cdots,a_n}(\Lambda)$ analogously, where $(4)_\nu$ is to be replaced by

$(23)_\nu$ $$\begin{aligned} w^{(\mu)}&=\sum_{j=0}^{\infty}\lambda_{\mu\nu}c^{(\nu)}_{-l_\nu+j}(w)\cdot v_{-l_\nu+j}[a_\nu]\\ &\quad+\sum_{j=0}^{\infty}\lambda_{\mu\nu}c^{*(\nu)}_{l_\nu^*+j}(w)\cdot v^*_{l_\nu+j}[a_\nu]\\ &\quad+\text{regular function}\end{aligned}$$

for $*=B$. Modification for $*=F$ is obvious (note that this definition differs from VII–(19) for $|l_\nu|>1/2$). The inner product is defined similarly, with the integrand replaced by the single-valued functions $\partial_{\bar z}v\cdot\Lambda^{-1t}(\partial_z\bar v')+m^2v\Lambda^{-1t}\bar v'$ or $w_+\Lambda^{-1t}\bar w'_+ + w_-\Lambda^{-1t}\bar w'_-$. All the results of §§ 1–3 are generalized to the case of $W^{l_1,\cdots,l_n}_{*a_1,\cdots,a_n}(\Lambda)$ as well. Details will appear in [3].

Errata. IV [1], P. 183, l. 11: $C_{F,l}[A]_l w$ should read $C_{F,l}w_l[A]$.
VII [2], P. 39, l. 2: The definition of M_ν should read

$$M_\nu=1+(e^{2\pi}i^{l_\nu}-1)E_\nu\Lambda.$$

References

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[3] ——: Holonomic Quantum Fields. III, RIMS preprint, no. 260; ditto. IV, ibid., no. 263.
[4] ——: Publ. RIMS, **14**, 223–267 (1978).
[5] ——: Proc. Japan Acad., **53A**, 219–224 (1977).