Automorphic Forms, Lie Algebras & String Theory

Université Lille 1 — Sciences et Technologies

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Laboratoire Paul Painlevé,

Université Lille I (France)

$$\phi\left(\frac{a\tau + b}{c\tau + d}, \frac{\mathfrak{z}}{c\tau + d}\right) = \chi(A)\,(c\tau + d)^k\, e^{i\pi t \frac{c(\mathfrak{z},\mathfrak{z})}{c\tau + d}}\, \phi(\tau, \mathfrak{z})$$

$$\psi_\varphi(\tau, \mathfrak{z}) = \prod_{\ell \in L^\vee, \ell > 0} \left(\frac{\vartheta(\tau, (\ell, \mathfrak{z}))}{\eta(\tau)}\right)^{f(0,\ell)}$$

$$(\Delta - 12)\mathcal{E}_{(0,1)} = -(E_{\frac{3}{2}})^2$$

$$E^G(\lambda, g) := \sum_{\gamma \in B(\mathbb{Z}) \backslash G(\mathbb{Z})} e^{\langle \lambda + \rho, H(\gamma g)\rangle}$$

ORGANIZERS

Valery Gritsenko
(Université Lille)

Pierre Vanhove
(IPhT/CEA & IHÉS)
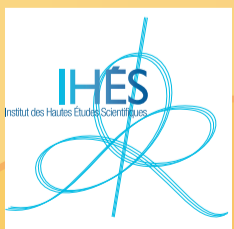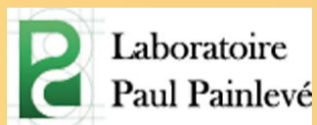
SPEAKERS

Miranda CHENG *(University of Paris 6)*

Fabien CLERY *(University of Siegen)*

Amine EL GRADECHI *(University of Arras)*

Michael B. GREEN *(DAMTP)*

Valery GRITSENKO *(University of Lille I)*

Kenji IOHARA *(University of Lyon)*

Bernard JULIA *(LPT-ENS, Paris)*

Axel KLEINSCHMIDT *(Albert-Einstein-Institute, Golm)*

Jan MANSCHOT *(University of Lyon)*

Sameer MURTHY *(King's College London)*

Boris PIOLINE *(LPTHE and CERN)*

Manni Riccardo SALVATI *(University of Roma I)*

Nils SCHEITHAUER *(University of Darmstadt)*

Nils SKORUPPA *(University of Siegen and Bonn)*

Pierre VANHOVE *(IPhT CEA-Saclay and IHÉS)*

Don ZAGIER *(Collège de France and Bonn)*

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