

Dror Bar-Natan, June 2012, Web/Caen-1206 with Web = http://www.math.toronto.edu/~drorbn/Talks. Sources: Web/Bonn-0908, and Web/Montpellier-1006.

with  $L_0\psi = \int \psi(x)e^x dx \in \hat{\mathcal{S}}(\mathfrak{g})$  and  $L_1\Phi^{-1}\psi = \int \psi(x)e^x \in \hat{\mathcal{U}}(\mathfrak{g})$ . Given  $\psi_i \in \operatorname{Fun}(\mathfrak{g})$  compare  $\Phi^{-1}(\psi_1) \star \Phi^{-1}(\psi_2)$  and  $\Phi^{-1}(\psi_1 \star \psi_2)$  in  $\hat{\mathcal{U}}(\mathfrak{g})$ : (shhh,  $L_{0/1}$  are "Laplace transforms")  $\star$  in  $G : \iint \psi_1(x)\psi_2(y)e^xe^y \quad \star$  in  $\mathfrak{g} : \iint \psi_1(x)\psi_2(y)e^{x+y}$ 

