

Quantised fields over de Sitter space

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Corrigenda

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Grensing G 1977 *J. Phys. A: Math. Gen.* **10** 1687-719

On p 1688 formula (2.4) should read

$$g^\dagger E g = E \quad g^T E' g = E', \tag{2.4}$$

and on p 1708 formula (9.11) should read

$$\begin{aligned} \Delta^-(z_1, z_2) = & \frac{1}{2i}(2\pi)^{-d} \Gamma\left(\frac{1}{2}(d-1) + i\rho\right) \Gamma\left(\frac{1}{2}(d-1) - i\rho\right) \\ & \times [(p_{12})^2 - 1]^{-\frac{1}{2}(d-2)} P_{-\frac{1}{2}+i\rho}^{-\frac{1}{2}(d-2)}(-p_{12}(\epsilon)). \end{aligned} \tag{9.11}$$

Furthermore, formula (11.16) on p 1713 should be replaced by

$$-2\lambda_R = -2\lambda + \frac{1}{2} \left(\frac{m^2}{4\pi}\right)^\omega \frac{J_0(\omega)}{\omega} \tag{11.16}$$

$$-2\omega(2\omega - 1)(16\pi G_R)^{-1} = -2\omega(\omega - 1)(16\pi G)^{-1} + \frac{1}{2m^2} \left(\frac{m^2}{4\pi}\right)^\omega \frac{J_1(\omega)}{\omega - 1},$$

and on p 1717 formula (A.29) by

$$\tilde{\rho}'_T(\hat{g}) = \hat{g} = \tilde{\rho}'_{PT}(\hat{g}), \quad \tilde{\rho}'_P(\hat{g}) = \hat{g}^{\dagger-1} = \tilde{\rho}'_T(\hat{g}). \tag{A.29}$$

On the relation between charge and topology

Sorking R 1977 *J. Phys. A: Math. Gen.* **10** 717-25

The third sentence of the second footnote on page 722 should be deleted. Since in § 4 $\mathcal{F}^{\mu\nu}$ is being treated as *axial*, the induced H -tensor E is well defined (as an axial vector density) *independently* of any external orientation for H . (*Proof.* It is the H -dual of the pullback to H of the M -dual of $\mathcal{F}^{\mu\nu}$.) It is only for polar $\mathcal{F}^{\mu\nu}$ that E is what one might call 'externally axial'.