Erratum,¹ June 27, 2020

i ) page 4, Caption of Fig. 1.4, full body,
is: A convex body is homeomorphic to a sphere.
should be: A convex body is homeomorphic to a ball.

ii ) p. 27, end of the first paragraph, shifted values of $N$:
is: For $N = 2$ it is a hexagon, for $N = 3$ a cuboctahedron,
should be: For $N = 3$ it is a hexagon, for $N = 4$ a cuboctahedron,

iii ) p. 44, Caption of Fig. 2.9, misprint in vector
is: $Q = (0.6, 0.4, 0.1)$
should be: $Q = (0.6, 0.3, 0.1)$

iv ) p. 49, Eq.(2.49):
In the normalization factor, the square root of curly $N$ should be in the numerator, not in the denominator. This error occurs twice.

v ) p. 79, Eq. (3.63)
is:$$dJ = 2i g_{a b, c}dz^c \wedge d^{\bar{z}}^a \wedge d^{\bar{z}}^b + 2i g_{a b, c}d^{\bar{z}}^c \wedge d z^a \wedge d^{\bar{z}}^b = 0 ,$$the letter $m$ in the second $\wedge$-factor of the first summand is redundant,
should read:
$$dJ = 2i g_{a b, c}dz^c \wedge d^{\bar{z}}^a \wedge d^{\bar{z}}^b + 2i g_{a b, c}d^{\bar{z}}^c \wedge d z^a \wedge d^{\bar{z}}^b = 0 ,$$

vi ) p. 135, Eq. (4.103), misprint $4 \rightarrow N$,
is:$$\frac{SL(N, \mathbb{C})}{P_4^{(N)}}$$should be:$$\frac{SL(N, \mathbb{C})}{P_4^{(N)}}$$

¹We are grateful to Daniel Miller, the most eager reader of our book, who kindly informed us about the vast majority of the misprints listed below...
vii ) p. 144, Eq. (5.13), eigenstates $|e_i⟩$ should simply read $|i⟩$, so this equation reads

$$|ψ⟩ = \sum_{i=1}^{n} \sqrt{p_i} e^{i\hi \mu_i} |i⟩, \quad |φ⟩ = \sum_{i=1}^{n} \sqrt{q_i} e^{i\pi_i} |i⟩.$$ \hfill (5.13)

viii ) p. 176, Eq. (6.39), missing subscript $(s)$, in the integrand is: $\tilde{W}(u, v)$ should be: $\tilde{W}^{(s)}(u, v)$

ix ) p. 182, Eq. (6.63), absolute value missing, is: $0 \leq < J_z > \leq j$ should be: $0 \leq |< J_z > | \leq j$

x ) p. 207, below Eq. (7.60), is: where $P_{2n}$ projects the space $N_{K,n} \otimes N_{K,n}$ into $N_{K,2n}$ should be: where $P_{2n}$ projects the space of dimension $(N_{K,n})^2$ into $N_{K,2n}$ dimensions.

xi ) p. 208, Eq. (7.66), change sine into cosine: is: $2k \sin(\theta_k)(\sin \theta_k)^{2k-1}$ should be: $2k \cos(\theta_k)(\sin \theta_k)^{2k-1}$

xii ) p. 208, above Eq. (7.69), misprint $p \rightarrow y$: is: $P(p) = n(1 - y)^{n-1}$ should be: $P(y) = n(1 - y)^{n-1}$

xiii ) p. 242, three sentences above Eq. (8.59), wrong label: is: Looking at the planar projections of $M^{(3)}$ shown in Figure 8.8 should be: Looking at the planar projections of $M^{(3)}$ shown in Figure 8.9

xiv ) p. 304, Eqs. (11.16), (11.17) and (11.18), curly brackets redundant, (11.16) is: $\{Φ \in \mathcal{CP}\}$, should be $Φ \in \mathcal{CP}$

(11.17) is: $\{Φ \in \mathcal{P}\}$, should be $Φ \in \mathcal{P}$

(11.18) is: $\{Φ \in \mathcal{SP}\}$, should be $Φ \in \mathcal{SP}$

xv ) p. 313, line 3 of first paragraph, space redundant: is: a notion of strategic importance in the theory of entanglement should be: a notion of strategic importance in the theory of entanglement
xvi ) p. 316, below Eq. (12.13), statement to be improved:

is: Another nice feature is that the phase factor ensures that all displacement operators are of order $N$.

should be: Another nice feature is that the phase factor ensures that all displacement operators raised to power $N$ give identity.

xvii ) p. 342 (very first line), typo

is: $A_{0,0}^2 = F$.

should be: $A_{0,0} = F^2$

xviii ) p.381, slightly improved version of Fig. 13.5 is enclosed below,

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Figure 1: Figure 13.5 The eigenvalue simplex for $N = 3$: (a) a Weyl chamber; the shaded region is accessible from $\rho_0$ with bistochastic maps. (b) The shape of the light cone depends on the degeneracy of the spectrum. $F$ denotes the future, $P$ the past, and $C$ the non-comparable states. (c) Splitting the simplex into Weyl chambers.

xix ) p. 346, 11-th line after Eq. (12.98), one ‘t’ is redundant

is: that the $N(N+1)$

should be: that the $N(N+1)$

xx ) p. 347, formula (12.100), number $t$ in the exponent missing, in the sum on the left hand side is missing,

the sum is: $\sum_{I,J} |\text{Tr}U_I^*U_J|^2$

should be: $\sum_{I,J} |\text{Tr}U_I^*U_J|^{2t}$

xxi ) p. 422, the very first line, redundant letter $b$,

is: complex random pure state on $NKb$ dimensional Hilbert space,

should be: complex random pure state on $NK$ dimensional Hilbert space,

xxii ) p.444, Eq. (16.28), change $|\Omega\rangle \rightarrow |\Psi\rangle_{23}$

left hand side, is: $|\Psi\rangle_1|\Omega\rangle_{23}$

should be: $|\Psi\rangle_1|\Phi^+\rangle_{23}$
xxiii ) p. 461, 4 lines below Eq. (16.61), font change N → N:
is: $\frac{1}{N}\text{Tr}\rho D_\Phi \geq 0$
should be: $\frac{1}{N}\text{Tr}\rho D_\Phi \geq 0$

xxiv ) p. 472, Eq. (16.62) – (16.64), curly brackets redundant:
(16.62) is: $\{\Phi \in SP\}$, should be $\Phi \in SP$
(16.63) is: $\{\Phi \in P\}$, should be $\Phi \in P$
(16.64) is: $\{\Phi \in CP\}$, should be $\Phi \in CP$

xxv ) p. 472, Property (E6), a missing superscript ",":
is: $E(|\psi\rangle\langle\psi^-|) = 1$
should be: $E(|\psi^-\rangle\langle\psi^-|) = 1$

xxvi ) p. 490, Fig. 16.14. Labels at the entanglement axis $E$ (vertical in gray):
are: ...0.4, 0.5, v.6
should be: ...0.4, 0.5, 0.6

xxvii ) p. 505, third line, typo: $e \rightarrow h$,
is: Her Athens over which see ruled
should be: Her Athens over which she ruled

xxviii ) p. 527, Eq. (17.74), second line, tex error. The equation should read:
$$|\Phi_2^5\rangle = |00000\rangle + |11000\rangle + |01100\rangle + |00110\rangle + |00011\rangle + |10001\rangle -$$
$$-|10010\rangle - |10100\rangle - |01001\rangle - |01010\rangle - |00101\rangle -$$
$$-|11110\rangle - |11101\rangle - |11011\rangle - |10100\rangle - |01111\rangle . \quad (17.74)$$

xxix ) p. 528, line 2, wrong font used,
is: K=4
should be: $K = 4$

xxx ) p. 576, reference [112], comma missing
is: $CP^n$, or entanglement illustrated,
should be: $CP^n$, or, entanglement illustrated,

xxxi ) p. 603, reference [765], wrong numbers
is: 87:05430
should be: 87:054301