ERRATA
Physics of Collective Beam Instabilities in High Energy Accelerators
April 15, 2001

p.vii, Table of Contents, last line

Original text | Heat-Tail

New text | Head-Tail

p.29, Eq.(1.65)

Original text | $\xi = \frac{4Q^2 r_0 \lambda}{A\beta^2\gamma^2}$

New text | $\xi = \frac{4Q^2 r_0 \lambda}{A\beta^2\gamma^3}$

p.30, last line

Original text | second number of Eq.(1.70).

New text | second member of Eq.(1.70).

p.43, one line above Eq.(2.12)

Original text | continuity of $\tilde{E}_z$.

New text | continuity of $\tilde{E}_s$.

p.74, the horizontal scale of Fig.2.12(d)

Original text | 4, 2, 0, 2, 4

New text | -4, -2, 0, 2, 4

p.92, 4th line

Original text | 25 m.

New text | 20 m.

p.100, 1st line in Eq.(2.160)

Original text | $E_S(0, 0, ct)$

New text | $E_s(0, 0, ct)$

p.103, 1st line after Eq.(2.169)

Original text | It follows from Eqs.(2.155) and (2.157) that

New text | It follows from Eq.(2.159) that

p.112, Ref.52

Original text | **SP-14**, 302 (1966).

New text | **AP-14**, 302 (1966).

p.120, 6th line from bottom

Original text | $P_{\text{parasitic}} = 8$ W.

New text | $P_{\text{parasitic}} = 6.5$ W.

p.125, Eq.(2.213)

Original text | $\Delta\mathcal{E} \approx -\frac{\omega_0 q^2 R_S}{2\pi} \cdot ..$

New text | $\Delta\mathcal{E} \approx -\frac{\omega_0 q^2 R_S}{\pi} \cdot ..$

p.140, 5th line

Original text | Eq.(3.28) becomes

New text | Eq.(3.27) becomes

p.148, 5th and 6th lines

Original text | $(n-1)$th order ... $(n-1)$th order...

New text | nth order ... nth order...

p.183, Fig.4.9

Original text | (vertical scale is missing marks for 0.5×10^{-2}, 0.5×10^{-1}, 0.5×10^{0}, 0.5×10^{1}

p.184, one line above Eq.(4.51)

Original text | amplitude

New text | power amplitude

p.210, Eq.(4.124)

Original text | $W_0^{''}\left(-kC - \frac{M-n}{M}C\right)$

New text | $W_0^{''}\left(-kC - \frac{m-n}{M}C\right)$

p.214, Eq.(4.137)

Original text $e^{-(i\bar{\omega}+\alpha)(C+z_j^{(1)}-z_j)}$

New text $e^{-(i\bar{\omega}+\alpha)(C+z_j^{(1)}-z_j)/c}$

p.240, 11th line

Original text is rater small

New text is rather small

p.240, one line above Eq.(5.64)

Original text In pace of

New text In place of

p.242, 2 lines above Fig. 5.6

Original text a reduction of an enhancement

New text a reduction or an enhancement

p.249, Eq.(5.98)

Original text $\frac{\pi\gamma\omega_s}{3N_\beta r_0\beta_Z\omega_0}$

New text $\frac{\pi\gamma\omega_s}{3N_B r_0\beta_Z\omega_0}$

p.252, Eq.(5.108)

Original text $\frac{nr_0c^2}{\gamma T_0}$

New text $\frac{\eta r_0c^2}{\gamma T_0}$

p.266, 3rd line from bottom

Original text Equation (5.146),

New text Equation (5.148),

p.285, Ref.17

Original text A. Hoffman,

New text A. Hofmann,

p.309, 2nd line from bottom

Original text this mode

New text this model

p.311, 1st line after Eq.(6.116)

Original text Table 6.2 and

New text Table 6.1 and

p.314, Eq.(6.122)

Original text $\frac{3}{4}\Upsilon_1$

New text $\frac{3}{4}\Upsilon_1\omega_s$

p.328, Eq.(6.154)

Original text $e^{-\sigma^2\omega^2/\sigma^2}$

New text $e^{-\sigma^2\omega^2/c^2}$

p.336, 1st line

Original text observed as location

New text observed at location

p.338, Eq.(6.180)

Original text $\omega' \equiv p\omega_0 + \omega_\beta + \ell\omega_s$.

New text $\omega' = p\omega_0 + \Omega$.

p.341, caption of the lower-left figure

Original text $\ell = 2$

New text $\ell = 1$

p.341, Eq.(6.188)

Original text (add after equation)

New text where $\omega' = p\omega_0 + \omega_\beta + \ell\omega_s$.

p.347, Fig.6.33

Original text (add figure labels)

New text (a) for the upper figure, (b) for the lower figure

p.358, Ref.42

Original text SSCL Report 606 (1992).

New text Part. Accel. **43**, 77 (1993).

p.368, right column

Original text Impedance, resonator, broad-band, $m = 1 \quad 90$

New text Impedance, resonator, broad-band, $m = 1 \quad 89$