

Supplemental material

E989 Collaboration

$R'_\mu(T)$ with additional digits, for further elaborations

The ω_α , $\tilde{\omega}'_p(T)$ and $R'_\mu(T)$ measurements on the four E989 Run1 run groups and the combined Run 1 $R'_\mu(T)$ value are reported with extra numerical precision in order to reduce rounding uncertainties for further elaborations. The correlation between the four run groups $R'_\mu(T)$ measurements is also reported.

	ω_α	$\tilde{\omega}'_p(T)$	$R'_\mu(T)$
Run1a	229081.059(278)	61791871.21(7.08)	0.00370730089(452)
Run1b	229081.398(236)	61791937.78(7.87)	0.00370730238(384)
Run1c	229081.261(190)	61791845.45(7.71)	0.00370730570(311)
Run1d	229081.229(157)	61792003.39(6.64)	0.00370729570(256)
Run1			0.00370730033(171)

$R'_\mu(T)$: correlation matrix for the Run 1 a, b, c, d measurements

$R'_\mu(T)$	1a	1b	1c	1d
1a	1.000	0.021	0.025	0.029
1b	0.021	1.000	0.030	0.033
1c	0.025	0.030	1.000	0.041
1d	0.029	0.033	0.041	1.000