PBARNOTE #419

Small Quadrupole Excitation Formulae[1]

D.E. Johnson

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SMALL QUADRUPOLE EXCITATION FORMULAE[1]

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$$X = \int B' dL \quad (kG)$$

$$Y = \text{Transfer Constant} \quad (kG/Amp)$$

$$Y = a + bX + cXE{+}2 + dXE{+}3 + eXE{+}4$$

	SQA	SQB	SQC	SQD	SQE
a	1.798E-1	2.507E-1	2.762E-1	3.253E-1	5.198E-1
b	6.347E-4	5.900E-4	4.589E-4	6.173E-4	3.030E-4
c	-2.105E-5	-1.196E-5	-7.336E-6	-1.120E-5	-1.138E-6
d	3.597E-7	1.321E-7	6.476E-8	1.045E-7	-8.859E-10
e	-2.627E-9	-6.778E-10	-3.050E-10	-4.077E-10	0.0

[1] Based on B.C. Brown, Excitation Curves of Small Quadrupoles for Tev I Beam Line Use. PBAR NOTE # 418, 25 FEB 1985.