- Note CEA-N-2334 -

Centre d'Etudes Nucléaires de Saclay
Institut de Recherche Fondamentale
Département de Physique Nucléaire
Service de Physique Nucléaire à Haute Energie

DIFFUSION PROFONDEMENT INELASTIQUE D'ELECTRONS PAR LE CARBONE

par

P. BARREAU, M. BERNHEIM, J. DUCLOS, J.M. FINN, Z. MEZIANI, J. MORGENSTERN, J. MOUGEY, D. ROYER, B. SAGHAI, D. TARNOWSKI, S. TURCK-CHIEZE, M. BRUSSEL, G.P. CAPITANI, E. DE SANCTIS, S. FRULLANI, F. GARIBALDI, D.B. ISABELLE, E. JANS, I. SICK, P.D. ZIMMERMAN

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DIFFUSION PROFONDEMENT INELASTIQUE D'ELECTRONS PAR LE CARBONE

Sommaire. - Cette note est le complément d'un article paru dans Nuclear Physics[1]) sous le titre "Deep inelastic electron scattering from carbon". Elle donne les valeurs expérimentales numériques qui n'ont pu paraître dans la publication citée à cause des dimensions des tableaux.

Le premier tableau contient les sections efficaces expérimentales, corrigées des corrections radiatives, et leur précision : l'énergie incidente E des électrons est compris entre 680 et 120 MeV, pour 4 angles de diffusion (θ=36°, 60°, 90° et 145°). Les 2ème et 3ème tableaux donnent les fonctions réponse longitudinale et transverse, ainsi que leur précision, dans deux types de décomposition de section efficace : le premier à transfert de quantité de mouvement constant (pour des $|\vec{q}|$ variant entre 200 et 600 MeV/c); le deuxième à transfert de quadrimoment constant (pour des q_μ variant entre 200 et 500 MeV/c).

1983 - Commissariat à l'Energie Atomique - France. 70 p.

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DEEP INELASTIC ELECTRON SCATTERING FROM CARBON.

Summary. - This note is the complement of a Nuclear Physics publication[1]) entitled "Deep-inelastic electron scattering from carbon". It gives the experimental numerical values which have not been published because of space limitations.

The first table gives the radiation corrected cross sections and their uncertainties, for incident energies (120 MeV < E < 680 MeV) and 4 scattering angles (36°, 60°, 90° and 145°).

The second and the third tables give the longitudinal and transverse response functions and their uncertainties for two types of cross-section decomposition : one at constant momentum transfer and the other one at constant four-momentum transfer (200 MeV/c $\leq |\vec{q}| <$ 600 MeV/c and 200 MeV/c $\leq q_\mu \leq$ 500 MeV/c).

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DESCRIPTION-MATIERE *(mots clefs extraits du thesaurus SIDON/INIS)*

en français	*en anglais*
CIBLE CARBONE 12	CARBON 12 TARGET
REACTIONS PAR ELECTRONS	ELECTRON REACTIONS
DIFFUSION PROFONDEMENT INELASTIQUE	DEEP INELASTIC SCATTERING
DONNEES EXPERIMENTALES	EXPERIMENTAL DATA
SECTIONS EFFICACES	CROSS SECTIONS
DOMAINE 100-1000 MEV	MEV RANGE 100-1000
TRANSFERT DE MOMENT	MOMENTUM TRANSFER
TRANSFERT DE QUADRIMOMENT	FOUR MOMENTUM TRANSFER
FONCTIONS DE REPONSE	RESPONSE FUNCTIONS

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Nous publions ici les résultats numériques de l'analyse d'une expérience ^{12}C (e,e') à grands transferts d'énergie dont les mesures ont été faites à l'Accélérateur Linéaire de Saclay[1]).

Dans cette expérience, les données ont été obtenues en bombardant une cible de carbone avec des électrons d'énergie E comprise entre 120 et 680 MeV, et en mesurant les sections efficaces de réaction à des énergies diffusées E' pour des angles de diffusion θ de 36°, 60°, 90° et 145°.

La cinématique dans le laboratoire pour la diffusion d'électrons peut être représentée par le diagramme de la Fig. 1. $\omega = E - E'$ est le transfert d'énergie, $\vec{q} = \vec{p} - \vec{p}'$ le transfert de quantité de mouvement dont nous noterons le module q :

$$\vec{q}^2 = E^2 + E'^2 - 2\,EE'\cos\theta \ ;$$

q_μ est le transfert de quadrimoment :

$$q_\mu^2 = 4\,EE'\sin\frac{\theta}{2}$$
$$= q^2 - \omega^2 \ .$$

Le tableau I présente les sections efficaces et leur précision pour chaque énergie incidente d'électrons E, et chaque angle θ et pour tous les transferts d'énergie ω dans chaque série de mesure, jusqu'à une énergie diffusée E' minimale. Pour le choix de E' et le calcul des corrections radiatives des sections efficaces, se reporter à Nuclear Physics[1]).

La connaissance des sections efficaces à des valeurs fixées de q et de ω, mais à des angles θ différents de diffusion permet de calculer les fonctions réponse $R_L(q,\omega)$ et $R_T(q,\omega)$ par une courbe de Rosenbluth. En effet, la section efficace expérimentale s'écrit :

$$\frac{d^3\sigma}{d\Omega d\omega} = \sigma_M \left\{ \left[\frac{q_\mu}{\vec{q}}\right]^4 R_L(q,\omega) + \left[\frac{1}{2}\left(\frac{q_\mu}{\vec{q}}\right)^2 + tg^2\frac{\theta}{2}\right] R_T(q,\omega) \right\}$$

dans laquelle expression (en unités telles que $\hbar = c = 1$)

$$\sigma_M = \frac{\alpha^2}{4\,E^2} \times \frac{\cos^2\frac{\theta}{2}}{\sin^4\frac{\theta}{2}}$$ est la section efficace de Mott,

$$(\alpha = e^2 = \frac{1}{137}) \ .$$

$R_L(q,\omega)$ est la fonction réponse pour un photon virtuel polarisé longitudinalement,

$R_T(q,\omega)$ est la fonction réponse pour un photon virtuel polarisé transversalement.

Cette formule s'applique dans le cadre de la première approximation de Born, ce qui est justifié pour le noyau ^{12}C (cf. l'article de Nuclear Physics[1]).

Le tableau II présente les fonctions réponse R_L et R_T pour un ensemble de couples q,ω , c'est-à-dire à q constant. Pour chaque couple nous donnons aussi le nombre de points, c'est-à-dire les valeurs de θ qui ont permis de tracer la droite de Rosenbluth.

Le tableau III présente les mêmes caractéristiques que le tableau II, mais la séparation des fonctions réponse a été faite pour des couples (q_μ,ω), c'est-à-dire à q_μ constant.

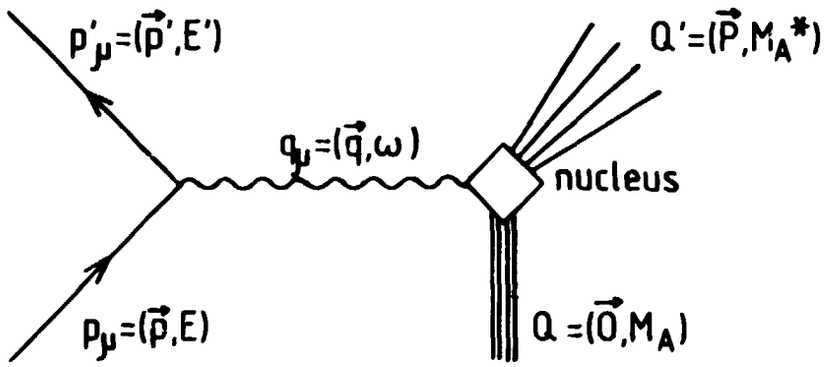

Fig. 1 - Diagramme schématique de la diffusion inélastique d'électrons. $(\vec{p},E)$ et $(\vec{p}',E')$ sont les quadrivecteurs de quantité de mouvement pour l'électron incident et l'électron diffusé. q_μ représente le photon virtuel, qui change l'état initial A du noyau en l'état final A^*.

Référence

[1]P. Barreau, M. Bernheim, J. Duclos, J.M. Finn, Z. Meziani, J. Morgenstern, J. Mougey, D. Royer, B. Saghaï, D. Tarnowski, S. Turck-Chieze, M. Brussel, G.P. Capitani, E. De Sanctis, S. Frullani, F. Garibaldi, D.B. Isabelle, E. Jans, I. Sick et P.D. Zimmerman, Nucl. Phys. A402 (1983) 515.

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Tableau I

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
36.0	680.00	12.50	3.77	.24
		22.50	8.20	.39
		32.50	11.50	.50
		42.50	14.74	.61
		52.50	18.49	.74
		62.50	23.63	.91
		72.50	26.87	1.02
		82.50	29.42	1.12
		92.50	31.89	1.21
		102.50	31.62	1.23
		112.50	30.23	1.20
		122.50	28.09	1.15
		132.50	26.55	1.04
		142.50	22.52	.93
		152.50	19.11	.83
		162.50	16.73	.76
		172.50	12.99	.65
		182.50	11.71	.60
		192.50	10.24	.55
		202.50	9.26	.51
		212.50	8.38	.48
		222.50	7.46	.45
		232.50	8.01	.46
		242.50	7.94	.41
		252.50	8.26	.42
		262.50	8.38	.47
		272.50	9.17	.50
		282.50	9.68	.52
		292.50	10.21	.54
		302.50	10.20	.55
		312.50	10.87	.58
		322.50	10.93	.59
		332.50	11.28	.57
		342.50	11.43	.64
		352.50	11.70	.67

Tableau I (suite 1)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
36.0	680.00	362.50	11.68	.68
		372.50	11.92	.71
		382.50	10.86	.70
		392.50	10.86	.72
		402.50	9.46	.71
		412.50	9.50	.74
		422.50	9.06	.77
		432.50	8.55	.79
		442.50	8.35	.84
		452.50	8.39	.84
		462.50	7.65	.93
		472.50	7.20	1.00
		482.50	7.20	1.09
		492.50	7.09	1.21
		502.50	7.05	1.40
	620.00	12.50	16.87	.59
		22.50	18.29	.66
		32.50	18.31	.69
		42.50	25.88	.93
		52.50	30.21	1.08
		62.50	35.98	1.27
		72.50	41.13	1.37
		82.50	42.83	1.45
		92.50	42.22	1.46
		102.50	39.59	1.41
		112.50	36.34	1.35
		122.50	30.80	1.20
		132.50	26.49	1.08
		142.50	21.55	.93
		152.50	17.85	.81
		162.50	14.58	.71
		172.50	12.24	.63
		182.50	10.63	.56
		192.50	9.76	.52
		202.50	9.10	.57

Tableau I (suite 2)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
36.0	620.00	212.50	8.38	.55
		222.50	8.54	.55
		232.50	9.15	.58
		242.50	9.73	.59
		252.50	9.88	.60
		262.50	10.88	.64
		272.50	11.16	.61
		282.50	11.50	.70
		292.50	12.17	.74
		302.50	12.42	.77
		312.50	12.29	.79
		322.50	13.42	.85
		332.50	13.19	.88
		342.50	13.44	.86
		352.50	12.86	.97
		362.50	12.71	1.01
		372.50	11.58	1.03
		382.50	12.51	1.12
		392.50	12.17	1.18
		402.40	11.13	1.21
		412.50	11.57	1.32
		422.50	9.99	1.37
		432.50	9.72	1.50
		442.50	10.15	1.61
	560.00	12.50	52.55	1.65
		22.50	30.65	1.09
		32.50	35.03	1.25
		42.50	44.09	1.55
		52.50	51.19	2.00
		62.50	55.51	2.17
		72.50	58.57	2.30
		82.50	55.27	2.25
		92.50	53.50	2.22
		102.50	45.03	2.00

Tableau I (suite 3)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
36.0	560.00	112.50	37.34	1.77
		122.50	30.42	1.35
		132.50	23.20	1.13
		142.50	18.79	1.04
		152.50	15.70	.94
		162.50	12.76	.84
		172.50	10.74	.76
		182.50	9.15	.71
		192.50	9.99	.73
		202.50	9.56	.72
		212.50	9.83	.63
		222.50	9.76	.67
		232.50	10.56	.71
		242.52	10.89	.74
		252.50	12.56	.81
		2(.50	11.70	.82
		272.50	13.18	.90
		282.50	14.01	.92
		292.50	14.23	1.05
		302.50	13.36	1.08
		312.50	14.04	1.16
		322.50	13.96	1.23
		332.50	14.96	1.35
		342.50	14.28	1.46
		352.50	14.78	1.59
		362.50	13.73	1.68
		372.50	14.17	1.86
		382.50	12.78	1.92

Tableau I (suite 4)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
36.0	480.00	12.50	101.70	3.38
		17.50	82.54	2.38
		22.50	62.48	2.38
		27.50	60.70	2.36
		32.50	74.87	2.79
		37.50	76.93	2.88
		42.50	82.52	2.82
		47.50	86.68	2.97
		52.50	90.87	3.13
		57.50	90.59	3.18
		62.50	88.26	3.15
		67.50	86.56	3.13
		72.50	80.11	2.97
		77.50	74.39	2.82
		82.50	68.27	2.66
		87.50	62.23	2.49
		92.50	55.53	2.29
		97.50	48.52	2.09
		102.50	42.72	1.91
		107.50	36.61	1.73
		112.50	32.87	1.61
		117.50	28.14	1.46
		122.50	24.91	1.36
		127.50	22.05	1.24
		132.50	19.57	1.16
		137.50	17.09	1.23
		142.50	14.85	1.15
		147.50	14.32	1.13
		152.50	12.82	1.09
		157.50	11.86	1.06
		162.50	11.58	1.05
		167.50	11.46	1.05

Tableau I (suite 5)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
36.0	480.00	172.50	11.51	1.06
		177.50	11.32	1.06
		182.50	10.28	1.04
		187.50	9.87	1.04
		192.50	9.10	1.03
		197.50	9.87	.96
		202.50	10.45	.99
		207.50	11.76	1.13
		212.50	12.07	1.17
		217.50	12.00	1.19
		222.50	12.41	1.24
		227.50	13.28	1.30
		232.50	13.46	1.35
		237.50	13.96	1.41
		242.50	13.92	1.45
		247.50	14.66	1.52
		252.50	15.66	1.61
		257.50	14.07	1.61
		262.50	15.27	1.71
		267.50	14.21	1.74
		272.50	16.38	1.98
		277.50	16.54	1.97
		282.50	16.23	2.04
		287.50	16.31	2.14
		292.50	16.80	2.26
		297.50	15.24	2.24
		302.50	16.81	2.42
		307.50	19.22	2.72
	400.00	12.50	181.00	7.55
		17.50	124.50	5.70
		22.50	110.90	5.26
		27.50	125.70	5.65
		32.50	137.90	5.99
		37.50	139.80	6.06

Tableau I (suite 6)

θ(deg)	E(MeV)	ω	σ	Δσ
36.0	400.00	42.50	132.40	5.87
		47.50	134.20	5.51
		52.50	129.90	5.40
		57.50	122.90	5.19
		62.50	115.40	4.98
		67.50	96.58	4.44
		72.50	89.12	4.22
		77.50	77.23	3.85
		82.50	63.34	3.43
		87.50	56.66	3.21
		92.50	48.49	2.95
		97.50	41.30	?.72
		102.50	34.03	2.49
		107.50	30.36	2.37
		112.50	24.06	2.17
		117.50	21.81	1.97
		122.50	19.59	2.06
		127.50	16.40	1.96
		132.50	15.70	1.96
		137.50	13.26	1.90
		142.50	12.45	1.90
		147.50	13.53	1.96
		152.50	11.87	1.94
		157.50	10.20	1.92
	320.00	12.50	284.10	17.80
		17.50	154.20	11.79
		22.50	187.10	11.97
		27.50	260.20	13.81
		32.50	227.70	12.39
		37.50	204.30	11.44
		42.50	188.00	10.77
		47.50	175.90	10.27
		52.50	151.70	9.41
		57.50	133.70	8.77

Tableau I (suite 7)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
36.0	320.00	62.50	107.50	7.86
		67.50	91.44	7.27
		72.50	78.75	6.80
		77.50	61.85	6.19
		82.50	51.52	5.81
		87.50	43.88	5.52
		92.50	32.75	4.79
	240.00	12.50	361.30	50.45
		17.50	304.10	41.20
		22.50	497.20	43.53
		27.50	462.10	39.49
		32.50	361.50	34.10
		37.50	291.20	30.19
		42.50	260.00	28.03
		47.50	206.60	25.24
		52.50	197.90	24.36
		57.50	138.30	19.81
		62.50	102.20	18.42
	200.00	17.50	435.60	78.23
		22.50	601.10	75.24
		27.50	650.10	70.57
		32.50	455.80	58.99
		37.50	375.60	53.38
		42.50	276.20	47.41
		47.50	200.30	42.92
	160.00	12.50	410.60	183.20
		17.50	409.00	147.50
		22.50	790.80	146.50
		27.50	542.10	123.00
60.0	680.00	47.50	.05	.01
		57.50	.04	.01
		67.50	.12	.01

Tableau I (suite 8)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
60.0	680·00	77.50	.16	.02
		87.50	.31	.02
		97.50	.45	.03
		107.50	.61	.04
		117.50	.77	.04
		127.50	1.02	.10
		137.50	1.22	.05
		147.50	1.57	.06
		157.50	1.83	.07
		167.50	1.99	.08
		177.50	2.24	.09
		187.50	2.40	.10
		197.50	2.51	.10
		207.50	2.45	.10
		217.50	2.53	.10
		227.50	2.43	.10
		237.50	2.29	.10
		247.50	2.13	.09
		257.50	1.95	.09
		267.50	1.62	.08
		277.50	1.60	.08
		287.50	1.47	.08
		297.50	1.44	.07
		307.50	1.39	.07
		317.50	1.51	.08
		327.50	1.43	.07
		337.50	1.46	.08
		347.50	1.54	.08
		357.50	1.65	.09
		367.50	1.74	.09
		377.50	1.78	.10
		387.50	1.99	.10
		397.50	1.98	.10
		407.50	1.99	.11

Tableau I (suite 9)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
60.0	680.00	417.50	2.05	.12
		427.50	2.22	.12
		437.50	2.00	.12
		447.50	2.25	.13
		457.50	2.08	.14
		467.50	2.14	.15
		477.50	1.95	.15
		487.50	2.03	.17
		497.50	1.74	.16
		507.50	1.74	.18
		517.50	1.68	.20
		527.50	1.58	.23
		537.50	1.48	.25
		547.50	1.48	.30
	620.00	37.50	.09	.01
		47.50	.15	.01
		57.50	.26	.01
		67.50	.43	.02
		77.50	.66	.03
		87.50	.98	.04
		97.50	1.32	.05
		107.50	1.70	.06
		117.50	2.01	.08
		127.50	2.48	.10
		137.50	2.91	.11
		147.50	3.11	.12
		157.50	3.35	.13
		167.50	3.67	.14
		177.50	3.65	.15
		187.50	3.57	.14
		197.50	3.49	.15
		207.50	3.14	.14
		217.50	2.84	.13
		227.50	2.51	.12

Tableau I (suite 10)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	620.00	237.50	2.38	.12
		247.50	2.16	.11
		257.50	1.97	.10
		267.50	1.87	.09
		277.50	1.67	.10
		287.50	1.67	.10
		297.50	1.79	.10
		307.50	1.83	.10
		317.50	1.89	.11
		327.50	2.15	.12
		337.50	2.27	.11
		347.50	2.32	.13
		357.50	2.37	.13
		367.50	2.58	.14
		377.50	2.64	.15
		387.50	2.80	.16
		397.50	2.68	.17
		407.50	2.75	.18
		417.50	2.59	.19
		427.50	2.69	.20
		437.50	2.68	.21
		447.50	2.43	.27
		457.50	2.18	.29
		467.50	2.30	.32
		477.50	2.00	.31
		487.50	2.17	.37
		497.50	1.89	.43
	560.00	12.50	.03	.01
		22.50	.03	.01
		32.50	.32	.02
		42.50	.48	.02
		52.50	.75	.04
		62.50	1.17	.06
		72.50	1.62	.07
		82.50	2.21	.09

Tableau I (suite 11)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	560.00	92.50	2.78	.11
		102.50	3.43	.14
		112.50	3.93	.15
		122.50	4.54	.16
		132.50	4.76	.17
		142.50	4.96	.19
		152.50	4.95	.19
		162.50	4.80	.19
		172.50	4.67	.19
		182.50	4.26	.18
		192.50	3.97	.17
		202.50	3.51	.16
		212.50	2.93	.13
		222.50	2.56	.14
		232.50	2.38	.13
		242.50	2.12	.12
		252.50	2.10	.12
		262.50	2.05	.12
		272.50	2.21	.13
		282.50	2.24	.12
		292.50	2.33	.14
		302.50	2.52	.15
		312.50	2.76	.16
		322.50	2.82	.17
		332.50	3.11	.18
		342.50	3.24	.20
		352.50	3.10	.21
		362.50	3.42	.23
		372.50	3.63	.26
		382.50	3.40	.26
		392.50	3.36	.30
		402.50	3.28	.33
		412.50	3.13	.36
		422.50	2.89	.42
		432.50	2.86	.49
		442.50	2.49	.59

Tableau I (suite 12)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60	518.80	11.30	.25	.02
		21.30	.09	.01
		31.30	.82	.03
		41.30	1.04	.04
		51.30	1.59	.04
		61.30	2.30	.05
		71.30	3.13	.07
		81.30	3.83	.08
		91.30	4.66	.09
		101.30	5.30	.10
		111.30	5.98	.12
		121.30	6.28	.12
		131.30	6.40	.12
		141.30	6.44	.13
		151.30	6.06	.13
		161.30	5.49	.12
		171.30	4.91	.12
		181.30	4.28	.11
		191.30	3.53	.10
		201.30	3.19	.10
		211.30	2.88	.09
		221.30	2.51	.08
		231.30	2.36	.08
		241.30	2.31	.08
		251.30	2.43	.08
		261.30	2.62	.09
		271.30	2.65	.10
		281.30	3.09	.10
		291.30	3.20	.11
		301.30	3.47	.12
		311.30	3.56	.12
		321.30	3.81	.14
		331.30	3.85	.15
		341.30	3.84	.17

Tableau I (suite 13)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	518.80	351.30	4.13	.20
		361.30	4.00	.23
		371.30	3.92	.27
	479.80	12.30	.38	.01
		17.30	.35	.02
		22.30	.49	.02
		27.30	1.26	.03
		32.30	1.70	.03
		37.30	1.77	.04
		42.30	2.25	.04
		47.30	2.60	.05
		52.30	3.14	.06
		57.30	3.60	.06
		62.30	4.15	.07
		67.30	4.78	.08
		72.30	5.27	.09
		77.30	5.74	.10
		82.30	6.26	.10
		87.30	6.66	.11
		92.30	6.99	.12
		97.30	7.51	.13
		102.30	7.69	.13
		107.30	7.89	.14
		112.30	8.19	.14
		117.30	8.01	.15
		122.30	8.12	.15
		127.30	8.15	.15
		132.30	7.93	.15
		137.30	7.65	.15
		142.30	7.14	.15
		147.30	6.64	.14
		152.30	6.29	.14
		157.30	5.86	.14
		162.30	5.50	.13
		167.30	5.17	.12
		172.30	4.68	.11
		177.30	4.33	.11

Tableau I (suite 14)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	479.80	182.30	3.99	.11
		187.30	3.68	.10
		192.30	3.41	.10
		197.30	3.26	.09
		202.30	3.10	.09
		207.30	2.96	.09
		212.30	2.85	.09
		217.30	2.76	.09
		222.30	2.69	.09
		227.30	2.71	.09
		232.30	2.70	.09
		237.30	2.79	.09
		242.30	2.77	.10
		247.30	2.94	.10
		252.30	3.07	.11
		257.30	3.18	.11
		262.30	3.21	.12
		267.30	3.30	.12
		272.30	3.33	.14
		277.30	3.47	.14
		282.30	3.65	.14
		287.30	3.70	.15
		292.30	3.82	.17
		297.30	4.04	.17
		302.30	4.00	.18
		307.30	4.11	.19
		312.30	4.34	.21
		317.30	4.38	.22
		322.30	4.26	.24
		327.30	4.45	.26
		332.30	4.55	.29
		337.30	4.53	.31
		342.30	4.62	.40
	440.00	7.50	.83	.03
		12.50	1.21	.04

Tableau I (suite 15)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	440.00	17.50	1.32	.03
		22.50	1.77	.03
		27.50	2.96	.05
		32.50	3.14	.06
		37.50	3.64	.06
		42.50	4.36	.07
		47.50	4.94	.08
		52.50	5.80	.09
		57.50	6.53	.10
		62.50	7.44	.12
		67.50	8.09	.13
		72.50	8.92	.14
		77.50	9.47	.15
		82.50	9.95	.16
		87.50	10.26	.17
		92.50	10.76	.18
		97.50	10.92	.19
		102.50	11.23	.20
		107.50	11.07	.20
		112.50	10.81	.20
		117.50	10.59	.20
		122.50	10.17	.21
		127.50	9.64	.20
		132.50	8.81	.20
		137.50	8.38	.20
		142.50	7.56	.19
		147.50	7.01	.18
		152.50	6.29	.16
		157.50	5.29	.15
		162.50	5.36	.20
		167.50	4.73	.15
		172.50	4.41	.13
		177.50	3.90	.13
		182.50	3.55	.12
		187.50	3.55	.12
		192.50	3.25	.11

Tableau I (suite 16)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	440.00	197.50	3.38	.11
		202.50	3.28	.11
		207.50	3.16	.11
		212.50	3.20	.11
		217.50	3.23	.12
		222.50	3.25	.12
		227.50	3.28	.12
		232.50	3.38	.13
		237.50	3.49	.14
		242.50	3.68	.15
		247.50	3.76	.15
		252.50	3.90	.16
		257.50	3.99	.18
		262.50	4.10	.19
		267.50	4.26	.20
		272.50	4.38	.22
		277.50	4.54	.24
	401.00	3.50	1.05	.04
		13.50	4.44	.10
		18.50	4.71	.10
		23.50	4.20	.09
		28.50	6.15	.12
		33.50	5.83	.11
		38.50	6.94	.13
		43.50	7.88	.14
		48.50	8.91	.16
		53.50	10.17	.18
		58.50	10.98	.19
		63.50	11.98	.20
		68.50	12.94	.22
		73.50	13.59	.24
		78.50	13.68	.25
		83.50	14.26	.27
		88.50	14.61	.27

Tableau I (suite 17)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	401.00	93.50	14.30	.27
		98.50	13.83	.28
		103.50	13.42	.28
		108.50	12.54	.27
		113.50	12.05	.26
		118.50	11.14	.24
		123.50	10.35	.23
		128.50	9.11	.22
		133.50	8.28	.21
		138.50	7.53	.20
		143.50	6.80	.19
		148.50	6.27	.18
		153.50	5.64	.17
		158.50	5.14	.16
		163.50	4.74	.16
		168.50	4.41	.15
		173.50	4.15	.15
		178.50	3.84	.15
		183.50	3.69	.15
		188.50	3.52	.15
		193.50	3.45	.15
		198.50	3.43	.15
		203.50	3.45	.16
		208.50	3.42	.17
		213.50	3.49	.18
		218.50	3.65	.19
		223.50	3.77	.21
		228.50	3.88	.22
		233.50	4.04	.24
		238.50	4.23	.26
		243.50	4.42	.28
		248.50	4.57	.31
		253.50	4.78	.34
		258.50	5.08	.37
		263.50	5.17	.41
		268.50	5.11	.44

Tableau I (suite 18)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	360.90	3.40	.20	.08
		8.40	8.01	.27
		13.40	8.53	.21
		18.40	8.81	.16
		23.40	9.20	.19
		28.40	9.24	.17
		33.40	10.60	.19
		38.40	11.88	.21
		43.40	13.23	.23
		48.40	14.69	.26
		53.40	16.02	.28
		58.40	17.33	.30
		63.40	18.28	.32
		68.40	19.05	.33
		73.40	19.33	.35
		78.40	19.40	.36
		83.40	18.91	.36
		88.40	17.98	.35
		93.40	17.18	.34
		98.40	15.76	.33
		103.40	14.45	.32
		108.40	12.91	.30
		113.40	11.67	.29
		118.40	10.25	.27
		123.40	9.05	.25
		128.40	8.07	.24
		133.40	7.05	.23
		138.40	6.35	.22
		143.40	5.56	.21
		148.40	5.02	.21
		153.40	4.67	.21
		158.40	4.23	.20
		163.40	3.81	.20
		168.40	3.71	.21
		173.40	3.42	.21

Tableau I (suite 19)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	360.90	178.40	3.33	.22
		183.40	3.20	.23
		188.40	3.18	.25
		193.40	3.22	.26
		198.40	3.24	.28
		203.40	3.33	.30
		208.40	3.40	.33
		213.40	3.59	.36
		218.40	3.87	.39
		223.40	4.06	.43
		228.40	4.29	.48
	320.30	2.80	4.69	.16
		7.80	30.21	.78
		12.80	23.29	.43
		17.80	16.33	.32
		22.80	18.66	.36
		27.80	17.66	.35
		32.80	20.77	.40
		37.80	21.38	.41
		42.80	23.30	.44
		47.80	24.74	.47
		52.80	25.83	.49
		57.80	26.26	.51
		62.80	26.37	.53
		67.80	25.96	.54
		72.80	24.81	.54
		77.80	22.32	.51
		82.40	20.46	.49
		87.50	18.14	.46
		92.80	15.96	.44
		97.80	14.21	.42
		102.80	12.22	.40
		107.80	10.73	.38

Tableau I (suite 20)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	320.30	112.80	9.32	.37
		117.80	8.15	.35
		122.80	7.14	.34
		127.80	6.18	.33
		132.80	5.68	.32
		137.80	5.26	.32
		142.80	4.60	.32
		147.80	4.18	.33
		152.80	3.81	.34
		157.80	3.39	.35
		162.80	3.05	.36
		167.80	2.86	.39
	280.30	2.80	48.19	1.18
		7.80	56.90	1.65
		12.80	39.62	.81
		17.80	21.64	.53
		22.80	26.14	.58
		27.80	26.30	.57
		32.80	31.91	.65
		37.80	34.42	.71
		42.80	36.16	.74
		47.80	38.10	.79
		52.80	38.15	.81
		57.80	36.76	.81
		62.80	34.67	.80
		67.80	31.68	.78
		72.80	28.41	.74
		77.80	24.83	.70
		82.80	21.36	.66
		87.80	18.46	.63
		92.80	15.56	.59
		97.80	13.46	.57
		102.80	11.32	.55
		107.80	10.14	.55
		112.80	8.64	.54

Tableau I (suite 21)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	280.30	117.80	7.66	.54
		122.80	6.49	.54
		127.80	5.84	.55
		132.80	5.37	.57
		137.80	4.93	.60
	240.40	2.90	270.70	7.18
		7.90	106.70	4.12
		12.90	60.58	1.80
		17.90	33.09	1.32
		22.90	43.27	1.40
		27.90	45.83	1.37
		32.90	48.90	1.40
		37.90	47.98	1.40
		42.90	48.65	1.44
		47.90	46.25	1.42
		52.90	43.75	1.41
		57.90	39.63	1.39
		62.90	33.68	1.31
		67.90	29.58	1.25
		72.90	24.83	1.22
		77.90	19.88	1.16
		82.90	16.97	1.11
		87.90	14.83	1.11
		92.90	12.02	1.09
		97.90	10.71	1.10
		102.90	9.65	1.14
		107.90	7.14	1.12
	200.00	7.50	164.00	12.88
		12.50	84.41	5.99
		17.50	51.28	4.27
		22.50	77.99	4.76
		27.50	82.41	4.70
		32.50	74.08	4.35
		37.50	68.52	4.17
		42.40	64.95	4.07
		47.50	56.44	3.84

Tableau I (suite 22)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
60.0	200 00	52.50	47.05	3.64
		57.50	39.00	3.57
		62.50	31.66	3.38
		67.50	26.05	3.20
	160.90	8.40	146.80	19.25
		13.40	81.09	10.79
		18.40	96.28	9.25
		23.40	147.10	9.33
		28.40	132.80	8.35
		33.40	101.00	7.35
		38.40	84.78	6.80
		43.40	71.35	6.38
		48.40	58.67	6.04
90.0	556.80	79.30	.014	.002
		89.30	.024	.002
		99.30	.040	.003
		109.30	.060	.004
		119.30	.10	.01
		129.30	.14	.01
		139.30	.19	.01
		149.30	.27	.01
		159.30	.36	.01
		169.30	.47	.02
		179.30	.56	.02
		189.30	.67	.03
		199.30	.74	.03
		209.30	.80	.03
		219.30	.86	.03
		229.30	.88	.04
		239.30	.89	.04
		249.30	.85	.04
		259.30	.84	.04
		269.30	.81	.04

Tableau I (suite 23)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
90.0	519.30	51.80	.010	.002
		61.80	.020	.003
		71.80	.030	.004
		81.80	.06	.01
		91.80	.08	.01
		101.80	.13	.01
		111.80	.20	.01
		121.80	.29	.01
		131.80	.39	.02
		141.80	.50	.02
		151.80	.66	.03
		161.80	.78	.03
		171.80	.88	.03
		181.80	1.01	.04

Table I (continued 24)

ϑ(deg)	E(MeV)	ω(MeV)	σ	$\Delta\sigma$
90.0	519.30	191.80	1.10	.04
		201.80	1.16	.05
		211.80	1.16	.05
		221.80	1.17	.05
		231.80	1.14	.05
	479.40	41.90	.020	.002
		51.90	.030	.003
		61.90	.060	.004
		71.90	.10	.01
		81.90	.17	.01
		91.90	.26	.01
		101.90	.38	.01
		111.90	.51	.02
		121.90	.70	.02
		131.90	.86	.03
		141.90	1.06	.04
		151.90	1.27	.06
		161.90	1.36	.05
		171.90	1.46	.06
		181.90	1.49	.06
		191.90	1.47	.05
		201.90	1.42	.05
		211.90	1.42	.05
		221.90	1.21	.05
		231.90	1.17	.05
		241.90	1.10	.05
		251.90	.92	.04
		261.90	.90	.05
		271.90	.92	.05
		281.90	.93	.05
		291.90	.95	.05
		301.90	1.05	.06
		311.90	1.18	.06
		321.90	1.31	.07
		331.90	1.34	.08
		341.90	1.42	.10
		351.90	1.57	.11

Tableau I (suite 25)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	479.40	361.90	1.60	.13
		371.90	1.74	.16
	400.50	23.00	.014	.002
		28.00	.05	.01
		33.00	.17	.01
		38.00	.17	.01
		43.00	.26	.02
		48.00	.31	.02
		53.00	.39	.02
		58.00	.52	.02
		63.00	.64	.03
		68.00	.75	.03
		73.00	.91	.04
		78.00	1.06	.04
		83.00	1.23	.05
		88.00	1.42	.05
		93.00	1.56	.06
		98.00	1.75	.07
		103.00	1.91	.07
		108.00	2.01	.08
		113.00	2.17	.09
		118.00	2.31	.09
		123.00	2.46	.10
		128.00	2.54	.10
		133.00	2.61	.10
		138.00	2.64	.11
		143.00	2.71	.11
		148.00	2.62	.11
		153.00	2.66	.11
		158.00	2.49	.11
		163.00	2.44	.11
		168.00	2.29	.11
		173.00	2.10	.10
		178.00	2.06	.10
		183.00	1.88	.09
		188.00	1.76	.09
		193.00	1.62	.09

Tableau I (suite 26)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	400.50	198.00	1.45	.09
		203.00	1.39	.09
		208.00	1.35	.09
		213.00	1.25	.08
		218.00	1.19	.08
		223.00	1.20	.08
		228.00	1.13	.08
		233.00	1.16	.08
		238.00	1.19	.09
		243.00	1.18	.08
		248.00	1.27	.09
		253.00	1.36	.10
		258.00	1.34	.11
		263.00	1.36	.12
		268.00	1.47	.12
		273.00	1.53	.14
		278.00	1.60	.15
		283.00	1.60	.17
		288.00	1.77	.19
		293.00	1.86	.21
		298.00	1.84	.23
	360.10	10.10	.16	.02
		15.10	.05	.01
		20.10	.06	.01
		25.10	.10	.01
		30.10	.59	.02
		35.10.	.49	.03
		40.10	.64	.02
		45.10	.85	.03
		50.10	1.01	.03
		55.10	1.21	.04
		60.10	1.48	.05
		65.10	1.68	.05
		70.10	1.92	.06
		75.10	2.20	.06

Tableau I (suite 27)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	360.10	80.10	2.45	.07
		85.10	2.77	.12
		90.10	2.99	.11
		95.10	3.12	.13
		100.10	3.45	.14
		105.10	3.45	.13
		110.10	3.47	.13
		115.10	3.64	.14
		120.10	3.85	.15
		125.10	3.72	.15
		130.10	3.40	.12
		135.10	3.46	.13
		140.10	3.24	.14
		145.10	3.11	.14
		150.10	2.93	.15
		155.10	2.70	.13
		160.10	2.40	.12
		165.10	2.27	.12
		170.10	2.04	.11
		175.10	1.77	.09
		180.10	1.68	.09
		185.10	1.59	.09
		190.10	1.46	.10
		195.10	1.32	.09
		200.10	1.34	.09
		205.10	1.27	.09
		210.10	1.33	.09
		215.10	1.32	.10
		220.10	1.29	.10
		225.10	1.33	.11
		230.10	1.36	.11
		235.10	1.48	.13
		240.10	1.46	.14
		245.10	1.52	.16

Tableau I (suite 28)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	360.10	250.10	1.75	.18
		255.10	1.68	.19
		260.10	1.81	.21
	320.70	8.20	.23	.02
		13.20	.22	.01
		18.20	.33	.02
		23.20	.60	.03
		28.20	1.52	.06
		33.20	1.23	.05
		38.20	1.63	.06
		43.20	1.95	.07
		48.20	2.26	.09
		53.20	2.73	.10
		58.20	3.10	.12
		63.20	3.55	.13
		68.20	3.82	.14
		73.20	4.19	.16
		78.20	4.48	.17
		83.20	4.79	.19
		88.20	4.97	.20
		93.20	5.21	.21
		98.20	5.33	.22
		103.20	5.23	.22
		108.20	5.24	.22
		113.20	5.03	.22
		118.20	4.75	.21
		123.20	4.41	.21
		128.20	4.13	.20
		133.20	3.76	.19
		138.20	3.38	.18
		143.20	3.04	.17
		148.20	2.72	.16
		153.20	2.47	.15
		158.20	2.19	.15
		163.20	2.04	.15

Tableau I (suite 29)

θ(deg)	E(MeV)	ω (MeV)	σ	Δσ
90.0	320.70	168.20	1.80	.14
		173.20	1.69	.14
		178.20	1.62	.14
		183.20	1.51	.15
		188.20	1.50	.16
		193.20	1.51	.16
		198.20	1.45	.17
		203.20	1.50	.19
		208.20	1.52	.21
		213.20	1.55	.23
		218.20	1.66	.26
	280.10	7.60	.14	.02
		12.60	1.54	.07
		17.60	.93	.06
		22.60	1.91	07
		27.60	3.32	.11
		32.60	2.84	.10
		37.60	3.58	.14
		42.60	3.96	.13
		47.60	4.60	.14
		52.60	5.22	.15
		57.60	5.69	.17
		62.20	6.18	.19
		67.60	6.63	.21
		72.50	6.81	.21
		77.60	7.15	.23
		82.60	7.21	.25
		87.60	6.95	.24
		92.60	6.68	.23
		97.60	6.41	.23
		102.60	5.95	.24
		107.60	5.37	.23
		112.60	4.62	.22
		117.60	4.41	.21

Tableau I (suite 30)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	280.10	122.60	3.81	.21
		127.60	3.35	.19
		132.60	2.92	.18
		137.60	2.50	.18
		142.60	2.35	.18
		147.60	2.04	.17
		152.60	1.85	.18
		157.60	1.71	.18
		162.60	1.53	.18
		167.60	1.55	.21
		172.60	1.51	.22
		177.60	1.23	.23
	241.10	3.60	.21	.02
		8.60	4.57	.16
		13.60	4.83	.13
		18.60	4.02	.14
		23.00	5.86	.19
		28.60	4.98	.18
		33.60	6.01	.20
		38.60	6.79	.22
		43.60	8.10	.29
		48.60	8.69	.29
		53.60	9.40	.31
		58.60	9.92	.33
		63.60	10.33	.35
		68.60	9.95	.36
		73.60	9.70	.36
		78.50	9.33	.36
		83.60	8.48	.35
		88.60	7.56	.33
		93.60	6.66	.32
		98.60	5.88	.31
		103.60	4.91	.29
		108.60	4.32	.28
		113.60	3.56	.27
		118.60	3.13	.26

Tableau I (suite 31)

ϑ(deg)	E(MeV)	ω (MeV)	σ	$\Delta\sigma$
90.0	241.10	123.60	2.63	.26
		128.60	2.46	.28
		133.60	2.07	.28
		138.60	1.99	.31
	199.90	4.90	1.75	.11
		9.90	20.37	.81
		14.90	12.14	.47
		19.90	9.46	.42
		24.90	11.50	.49
		29.90	11.75	.52
		34.90	12.57	.54
		39.90	14.30	.63
		44.90	15.13	.67
		49.90	15.35	.67
		54.90	15.28	.70
		59.90	13.75	.68
		64.90	12.28	.65
		69.90	10.84	.63
		74.90	9.56	.62
		79.90	7.97	.57
		84.90	6.05	.56
		89.90	5.34	.57
		94.90	4.56	.57
		99.90	3.70	.57
	159.70	2.20	122.30	5.45
		7.20	45.47	2.17
		12.20	22.24	1.40
		17.20	13.94	1.14
		22.20	19.77	1.33
		27.20	22.00	1.36
		32.20	23.40	1.47
		37.20	22.54	1.42
		42.20	21.37	1.40
		47.20	19.39	1.38

Tableau 1 (suite 32)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
90.0	159.70	52.20	17.23	1.35
		57.20	14.64	1.31
		62.20	12.00	1.27
	119.60	7.10	86.76	9.86
		12.10	26.35	5.89
		17.10	25.81	4.67
		22.10	40.06	4.77
145.0	560.00	192.50	.010	.002
		202.50	.016	.003
		212.50	.023	.001
		222.50	.034	.002
		232.50	.049	.003
		242.50	.066	.003
		252.50	.092	.004
		262.50	.123	.005
		272.50	.151	.007
		282.50	.171	.007
		292.50	.185	.010
		302.50	.211	.011
		312.50	.220	.012
		322.50	.234	.013
		332.50	.241	.013
		342.50	.236	.014
		352.50	.217	.013
		362.50	.207	.014
		372.50	.205	.014
		382.50	.215	.014
		392.50	.235	.017
		402.50	.258	.019
		412.50	.290	.020
		422.50	.331	.025
		432.50	.361	.028
		442.50	.406	.034
		452.50	.401	.037
		462.50	.421	.043

Tableau I (suite 33)

θ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	479.40	121.90	.009	.001
		131.90	.009	.001
		141.90	.020	.002
		151.90	.027	.003
		161.90	.055	.003
		171.90	.081	.004
		181.90	.111	.005
		191.90	.157	.006
		201.90	.201	.010
		211.90	.260	.013
		221.90	.290	.015
		231.90	.315	.016
		241.90	.371	.018
		251.90	.400	.015
		261.90	.418	.018
		271.90	.424	.019
		281.90	.426	.019
		291.90	.390	.018
		301.90	.380	.021
		311.90	.373	.021
		321.90	.416	.022
		331.90	.381	.022
		341.90	.442	.028
		351.90	.466	.029
		361.90	.507	.031
		371.90	.611	.040
	440.00	97.50	.010	.002
		107.50	.015	.002
		117.50	.030	.003
		127.50	.050	.004
		137.50	.083	.005
		147.50	.123	.007
		157.50	.186	.008
		167.50	.266	.011
		177.50	.317	.014
		187.50	.388	.017
		197.50	.441	.020

Tableau I (suite 34)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	440.00	207.50	.497	.022
		217.50	.521	.026
		227.50	.546	.028
		237.50	.536	.028
		247.50	.515	.030
		257.50	.471	.026
		267.50	.422	.027
		277.50	.428	.028
		287.50	.396	.028
		297.50	.421	.030
		307.50	.437	.033
		317.50	.472	.037
		327.50	.534	.045
		337.50	.613	.054
	399.70	59.70	.007	.001
		64.70	.008	.001
		69.70	.010	.001
		74.70	.018	.003
		79.70	.022	.002
		84.70	.034	.003
		89.70	.043	.003
		94.70	.060	.004
		99.70	.066	.004
		104.70	.086	.005
		109.70	.113	.005
		114.70	.130	.005
		119.70	.163	.006
		124.70	.186	.009
		129.70	.216	.010
		134.70	.247	.011
		139.70	.300	.012
		144.70	.354	.013
		149.70	.405	.015
		154.70	.426	.015
		159.70	.480	.017

Tableau I (suite 35)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	39° 70	164.70	.509	.018
		169.70	.563	.019
		174.70	.625	.026
		179.70	.700	.034
		184.70	.728	.034
		189.70	.717	.041
		194.70	.710	.034
		199.70	.745	.035
		204.70	.795	.037
		209.70	.751	.037
		214.70	.706	.030
		219.70	.690	.033
		224.70	.647	.033
		229.70	.625	.035
		234.70	.580	.032
		239.70	.610	.033
		244.70	.528	.031
		249.70	.543	.030
		254.70	.503	.030
		259.70	.481	.030
		264.70	.522	.031
		269.70	.506	.030
		274.70	.518	.031
		279.70	.546	.031
		284.70	.558	.036
		289.70	.626	.041
		294.70	.644	.042
		299.70	.685	.045
	360.10	45.10	.010	.006
		50.10	.015	.006
		55.10	.039	.008
		60.10	.025	.007
		65.10	.048	.009
		70.10	.069	.008

Tableau I (suite 36)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	360.10	75.10	.095	.006
		80.10	.120	.007
		85.10	.140	.009
		90.10	.195	.010
		95.10	.239	.013
		100.10	.271	.014
		105.10	.360	.015
		110.10	.407	.017
		115.10	.441	.018
		120.10	.554	.021
		125.10	.613	.023
		130.10	.678	.023
		135.10	.762	.030
		140.10	.792	.036
		145.10	.855	.037
		150.10	.882	.045
		155.10	.941	.040
		160.10	.994	.042
		165.10	.970	.042
		170.10	1.004	.044
		175.10	1.003	.039
		180.10	1.005	.043
		185.10	.948	.043
		190.10	.916	.046
		195.10	.874	.043
		200.10	.852	.042
		205.10	.740	.040
		210.10	.769	.040
		215.10	.645	.040
		220.10	.656	.041
		225.10	.606	.040
		230.10	.595	.038
		235.10	.592	.040
		240.10	.571	.035
		245.10	.551	.040

Tableau I (suite 37)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	360.10	250.10	.625	.044
		255.10	.639	.044
		260.10	.697	.048
	320.10	30.10	.006	.002
		35.10	.052	.003
		40.10	.051	.004
		45.10	.081	.007
		50.10	.110	.007
		55.10	.150	.010
		60.10	.210	.012
		65.10	.260	.012
		70.10	.323	.014
		75.10	.427	.020
		80.10	.456	.020
		85.10	.560	.021
		90.10	.641	.021
		95.10	.724	.027
		100.10	.851	.035
		105.10	.924	.036
		110.10	1.016	.045
		115.10	1.074	.041
		120.10	1.237	.047
		125.10	1.230	.055
		130.10	1.300	.051
		135.10	1.305	.046
		140.10	1.388	.051
		145.10	1.395	.052
		150.10	1.357	.054
		155.10	1.324	.053
		160.10	1.330	.056
		165.10	1.197	.052
		170.10	1.144	.050
		175.10	1.025	.049
		180.10	.973	.049
		185.10	.865	.046
		190.10	.880	.047
		195.10	.785	.045

Tableau I (suite 38)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	320.10	200.10	.697	.039
		205.10	.688	.043
		210.10	.750	.048
		215.10	.637	.044
		220.10	.664	.047
	280.10	22.60	.008	.005
		27.60	.075	.007
		32.60	.290	.015
		37.60	.250	.018
		42.60	.354	.017
		47.60	.434	.018
		52.60	.552	.019
		57.60	.720	.028
		62.60	.810	.030
		67.60	.973	.040
		72.60	1.042	.037
		77.60	1.190	.041
		82.60	1.322	.053
		87.60	1.418	.051
		92.60	1.584	.054
		97.60	1.672	.056
		102.60	1.811	.065
		107.60	1.860	.068
		112.60	1.892	.071
		117.60	1.964	.074
		122.60	1.916	.077
		127.60	1.891	.076
		132.60	1.753	.077
		137.60	1.702	.082
		142.60	1.550	.081
		147.60	1.448	.075
		152.60	1.303	.076
		157.60	1.146	.065
		162.60	1.048	.062
		167.60	.897	.061
		172.60	.922	.061
		177.60	.863	.062

Tableau I (suite 39)

ϑ(deg)	E(MeV)	ω(MeV)	σ	Δσ
145.0	241. 10	8.60	.027	.004
		13.60	.029	.003
		18.60	.015	.004
		23.60	.186	.014
		28.60	.816	.047
		33.60	.652	.030
		38.60	.908	.040
		43.60	1.070	.053
		48.60	1.280	.052
		53.60	1.442	.052
		58.60	1.661	.056
		63.60	1.913	.070
		68.60	2.051	.075
		73.60	2.182	.081
		78.00	2.410	.090
		83.60	2.630	.102
		88.60	2.657	.102
		93.60	2.704	.106
		98.60	2.750	.114
		103.60	2.613	.114
		108.60	2.400	.110
		113.60	2.322	.111
		118.60	2.063	.101
		123.60	1.824	.100
		128.60	1.582	.100
		133.60	1.491	.092
		138.60	1.253	.087
	199.90	9.90	.238	.019
		14.90	.207	.013
		19.90	.840	.045
		24.90	2.082	.080
		29.90	1.520	.067
		34.90	1.822	.074

Tableau I (suite 40)

ϑ(deg)	E(MeV)	ω(MeV)	σ	$\Delta\sigma$
145.0	199.90	39.90	2.13	.09
		44.90	2.52	.10
		49.90	2.94	.11
		54.90	3.40	.14
		59.90	3.66	.15
		64.90	3.75	.16
		69.90	3.86	.17
		74.90	3.93	.18
		79.90	3.73	.17
		84.90	3.44	.18
		89.90	3.10	.17
		94.90	2.82	.16
		99.90	2.48	.15
	159.70	2.20	.718	.071
		7.20	1.331	.073
		12.20	.947	.051
		17.20	1.055	.058
		22.20	3.93	.17
		27.20	2.77	.12
		32.20	3.32	.16
		37.20	4.03	.18
		42.20	4.90	.22
		47.20	5.42	.25
		52.20	5.62	.27
		57.20	5.50	.28
		62.20	5.13	.28
	119.60	2.10	17.10	.70
		7.10	4.80	.34
		12.10	2.39	.21
		17.10	3.28	.26
		22.10	7.22	.41.

Tableau II

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
200.0	12.50	.0595	.0082	-.0039	.0066		60.	90.	
	17.50	.0313	.0032	.0045	.0031	36.	60.	90.	
	22.50	.0327	.0031	.0117	.0031	36.	60.	90.	
	27.50	.0447	.0033	.0080	.0034	36.	60.	90.	
	32.50	.0410	.0032	.0114	.0034	36.	60.	90.	
	37.50	.0362	.0031	.0140	.0035	36.	60.	90.	
	42.50	.0334	.0032	.0150	.0037	36.	60.	90.	
	47.50	.0327	.0030	.0134	.0034	36.	60.	90.	
	52.50	.0310	.0027	.0116	.0029	36.	60.	90.	
	57.50	.0268	.0024	.0110	.0025	36.	60.	90.	
	62.50	.0244	.0023	.0094	.0023	36.	60.	90.	
	67.50	.0207	.0023	.0085	.0023	36.	60.	90.	
	72.50	.0193	.0025	.0056	.0025	36.	60.	90.	
250.0	12.50	.0588	.00101	.0001	.0003		60.	90.	145.
	17.50	.0304	.0006	.0060	.0003	36.	60.	90.	145.
	22.50	.0268	.0006	.0106	.0003	36.	60.	90.	145.
	27.50	.0292	.0006	.0119	.0004	36.	60.	90.	145.
	32.50	.0330	.0006	.0125	.0005	36.	60.	90.	145.
	37.50	.0334	.0007	.0153	.0005	36.	60.	90.	145.
	42.50	.0327	.0007	.0179	.0006	36.	60.	90.	145.
	47.50	.0329	.0008	.0196	.0007	36.	60.	90.	145.
	52.50	.0323	.0009	.0203	.0008	36.	60.	90.	145.
	57.50	.0312	.0010	.0201	.0009	36.	60.	90.	145.
	62.50	.0301	.0011	.0189	.0010	36.	60.	90.	145.
	67.50	.0303	.0021	.0152	.0023	36.	60.	90.	
	72.50	.0262	.0021	.0152	.0023	36.	60.	90.	
	77.50	.0249	.0019	.0129	.0019	36.	60.	90.	
	82.50	.0222	.0018	.0116	.0016	36.	60.	90.	
	87.50	.0192	.0017	.0105	.0015	36.	60.	90.	
	92.50	.0184	.0016	.0079	.0015	36.	60.	90.	
	97.50	.0155	.0016	.0080	.0016	36.	60.	90.	
	102.50	.0136	.0014	.0072	.0013	36.	60.	90.	
	107.50	.0116	.0013	.0069	.0011	36.	60.	90.	

Tableau II (suite 1)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
250.0	112.50	.0107	.0013	.0060	.0012	36. 60. 90.
	117.50	.0084	.0014	.0063	.0012	36. 60. 90.
	122.50	.0075	.0014	.0058	.0011	36. 60. 90.
	127.50	.0071	.0015	.0051	.0012	36. 60. 90.
300.0	17.50	.0292	.0004	.0021	.0002	36. 60. 90. 145.
	22.50	.0201	.0005	.0120	.0005	36. 60. 90. 145.
	27.50	.0212	.0004	.0104	.0003	36. 60. 90. 145.
	32.50	.0250	.0005	.0107	.0003	36. 60. 90. 145.
	37.50	.0251	.0005	.0130	.0003	36. 60. 90. 145.
	42.50	.0260	.0006	.0158	.0004	36. 60. 90. 145.
	47.50	.0262	.0007	.0185	.0005	36. 60. 90. 145.
	52.50	.0266	.0007	.0206	.0005	36. 60. 90. 145.
	57.50	.0270	.0007	.0217	.0005	36. 60. 90. 145.
	62.50	.0272	.0007	.0224	.0006	36. 60. 90. 145.
	67.50	.0269	.0008	.0226	.0007	36. 60. 90. 145.
	72.50	.0262	.0009	.0225	.0008	36. 60. 90. 145.
	77.50.	.0245	.0009	.0220	.0008	36. 60. 90. 145.
	82.50	.0230	.0009	.0210	.0008	36. 60. 90. 145.
	87.50	.0217	.0009	.0197	.0008	36. 60. 90. 145.
	92.50	.0199	.0008	.0183	.0007	36. 60. 90. 145.
	97.50	.0182	.0009	.0170	.0007	36. 60. 90. 145.
	102.50	.0165	.0008	.0156	.0007	36. 60. 90. 145.
	107.50	.0152	.0006	.0140	.0005	36. 60. 90. 145.
	112.50	.0138	.0006	.0125	.0005	36. 60. 90. 145.
	117.50	.0131	.0011	.0108	.0011	36. 60. 90.
	122.50	.0113	.0010	.0101	.0009	36. 60. 90.
	127.50	.0102	.0009	.0091	.0008	36. 60. 90.
	132.50	.0094	.0010	.0083	.0009	36. 60. 90.
	137.50	.0083	.0011	.0079	.0010	36. 60. 90.
	142.50	.0074	.0012	.0075	.0011	36. 60. 90.
	147.50	.0061	.0011	.0078	.0010	36. 60. 90.
	152.50	.0060	.0011	.0070	.0009	36. 60. 90.
	157.50	.0052	.0012	.0068	.0009	36. 60. 90.
	162.50	.0044	.0013	.0070	.0010	36. 60. 90.

Tableau II (suite 2)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
300.0	167.50	.0046	.0016	.0066	.0012	36. 60. 90.
	172.50	.0054	.0019	.0059	.0014	36. 60. 90.
	177.50	.0075	.0019	.0043	.0014	36. 60. 90.
	182.50	.0063	.0019	.0054	.0013	36. 60. 90.
350.0	17.50	.0176	.0002	.0022	.0001	36. 60. 90. 145.
	22.50	.0118	.0003	.0090	.0003	36. 60. 90. 145.
	27.50	.0108	.0003	.0110	.0003	36. 60. 90. 145.
	32.50	.0131	.0003	.0097	.0003	36. 60. 90. 145.
	37.50	.0144	.0004	.0115	.0003	36. 60. 90. 145.
	42.50	.0154	.0004	.0132	.0004	36. 60. 90. 145.
	47.50	.0164	.0004	.0154	.0004	36. 60. 90. 145.
	52.50	.0174	.0005	.0174	.0005	36. 60. 90. 145.
	57.50	.0181	.0006	.0194	.0006	36. 60. 90. 145.
	62.50	.0194	.0005	.0208	.0005	36. 60. 90. 145.
	67.50	.0206	.0005	.0218	.0005	36. 60. 90. 145.
	72.50	.0211	.0006	.0227	.0005	36. 60. 90. 145.
	77.50	.0212	.0007	.0237	.0006	36. 60. 90. 145.
	82.50	.0218	.0007	.0240	.0006	36. 60. 90. 145.
	87.50	.0214	.0007	.0240	.0006	36. 60. 90. 145.
	92.50	.0207	.0007	.0238	.0006	36. 60. 90. 145.
	97.50	.0202	.0007	.0232	.0006	36. 60. 90. 145.
	102.50	.0196	.0007	.0222	.0006	36. 60. 90. 145.
	107.50	.0187	.0007	.0212	.0006	36. 60. 90. 145.
	112.50	.0176	.0008	.0203	.0008	36. 60. 90. 145.
	117.50	.0166	.0008	.0187	.0007	36. 60. 90. 145.
	122.50	.0158	.0007	.0173	.0006	36. 60. 90. 145.
	127.50	.0141	.0007	.0162	.0005	36. 60. 90. 145.
	132.50	.0132	.0007	.0149	.0006	36. 60. 90. 145.
	137.50	.0114	.0007	.0143	.0005	36. 60. 90. 145.
	142.50	.0102	.0006	.0132	.0004	36. 60. 90. 145.
	147.50	.0096	.0006	.0122	.0004	36. 60. 90. 145.
	152.50	.0088	.0005	.0112	.0004	36. 60. 90. 145.
	157.50	.0082	.0005	.0106	.0003	36. 60. 90. 145.
	162.50	.0071	.0005	.0104	.0004	36. 60. 90. 145.
	167.50	.0059	.0010	.0103	.0009	36. 60. 90.

Tableau II (suite 3)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
350.0	172.50	.0051	.0011	.0106	.0010	36.	60.	90.	
	177.50	.0038	.0012	.0111	.0011	36.	60.	90.	
	182.50	.0027	.0012	.0113	.0011	36.	60.	90.	
	187.50	.0017	.0012	.0116	.0010	36.	60.	90.	
	192.50	.0025	.0012	.0110	.0010	36.	60.	90.	
	197.50	.0032	.0014	.0107	.0010	36.	60.	90.	
	202.50	.0029	.0016	.0110	.0012	36.	60.	90.	
	207.50	.0026	.0019	.0116	.0013	36.	60.	90.	
	212.50	.0032	.0016	.0115	.0012	36.	60.	90.	
	217.50	.0028	.0016	.0123	.0011	36.	60.	90.	
	222.50	.0024	.0019	.0132	.0012	36.	60.	90.	
	227.50	.0017	.0025	.0144	.0015	36.	60.	90.	
	232.50	.0018	.0027	.0153	.0017	36.	60.	90.	
	237.50	.0026	.0026	.0155	.0016	36.	60.	90.	
400.0	22.50	.0069	.0001	.0040	.0001	36.	60.	90.	145.
	27.50	.0048	.0002	.0098	.0002	36.	60.	90.	145.
	32.50	.0073	.0002	.0077	.0002	36.	60.	90.	145.
	37.50	.0073	.0002	.0092	.0002	36.	60.	90.	145.
	42.50	.0084	.0003	.0106	.0003	36.	60.	90.	145.
	47.50	.0091	.0003	.0122	.0003	36.	60.	90.	145.
	52.50	.0101	.0003	.0138	.0004	36.	60.	90.	145.
	57.50	.0111	.0004	.0155	.0004	36.	60.	90.	145.
	62.50	.0119	.0005	.0173	.0005	36.	60.	90.	145.
	67.50	.0130	.0005	.0184	.0005	36.	60.	90.	145.
	72.50	.0147	.0005	.0192	.0005	36.	60.	90.	145.
	77.50	.0154	.0005	.0203	.0005	36.	60.	90.	145.
	82.50	.0151	.0006	.0220	.0005	36.	60.	90.	145.
	87.50	.0154	.0007	.0232	.0007	36.	60.	90.	145.
	92.50	.0164	.0007	.0237	.0006	36.	60.	90.	145.
	97.50	.0166	.0007	.0241	.0005	36.	60.	90.	145.
	102.50	.0173	.0007	.0243	.0005	36.	60.	90.	145.
	107.50	.0167	.0008	.0246	.0006	36.	60.	90.	145.
	112.50	.0163	.0007	.0245	.0006	36.	60.	90.	145.

Tableau II (suite 4)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
400.0	117.50	.0168	.0008	.0235	.0006		60.	90.	145.
	122.50	.0164	.0009	.0228	.0007		60.	90.	145.
	127.50	.0160	.0008	.0219	.0006		60.	90.	145.
	132.50	.0147	.0008	.0212	.0006		60.	90.	145.
	137.50	.0134	.0008	.0204	.0007		60.	90.	145.
	142.50	.0130	.0010	.0191	.0008		60.	90.	145.
	147.50	.0116	.0010	.0183	.0008		60.	90.	145.
	152.50	.0111	.0008	.0169	.0006	36.	60.	90.	145.
	157.50	.0102	.0007	.0158	.0005	36.	60.	90.	145.
	162.50	.0089	.0007	.0147	.0006	36.	60.	90.	145.
	167.50	.0081	.0006	.0140	.0005	36.	60.	90.	145.
	172.50	.0079	.0005	.0130	.0004	36.	60.	90.	145.
	177.50	.0073	.0006	.0123	.0004	36.	60.	90.	145.
	182.50	.0063	.0005	.0121	.0004	36.	60.	90.	145.
	187.50	.0056	.0005	.0115	.0004	36.	60.	90.	145.
	192.50	.0055	.0005	.0111	.0004	36.	60.	90.	145.
	197.50	.0051	.0005	.0111	.0004	36.	60.	90.	145.
	202.50	.0042	.0006	.0113	.0004	36.	60.	90.	145.
	207.50	.0051	.0006	.0105	.0004	36.	60.	90.	145.
	212.50	.0044	.0006	.0108	.0004	36.	60.	90.	145.
	217.50	.0032	.0011	.0117	.0008	36.	60.	90.	
	222.50	.0033	.0011	.0119	.0008	36.	60.	90.	
	227.50	.0029	.0011	.0126	.0008	36.	60.	90.	
	232.50	.0024	.0011	.0132	.0008	36.	60.	90.	
	237.50	.0032	.0012	.0134	.0008	36.	60.	90.	
	242.50	.0037	.0013	.0139	.0009	36.	60.	90.	
	247.50	.0029	.0014	.0151	.0010	36.	60.	90.	
	252.50	.0033	.0017	.0157	.0011	36.	60.	90.	
	257.50	.0028	.0017	.0167	.0011	36.	60.	90.	
	262.50	.0037	.0017	.0173	.0010	36.	60.	90.	
	267.50	.0052	.0021	.0177	.0012	36.	60.	90.	
	272.50	.0043	.0026	.0191	.0013	36.	60.	90.	
	277.50	.0028	.0027	.0210	.0015	36.	60.	90.	
	282.50	.0032	.0035	.0220	.0018	36.	60.	90.	
	287.50	.0032	.0042	.0230	.0020	36.	60.	90.	

Tableau II (suite 5)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
450.0	27.50	.0021	.0002	.0053	.0002	60. 90. 145.
	32.50	.0028	.0001	.0057	.0001	60. 90. 145.
	37.50	.0032	.0001	.0061	.0001	60. 90. 145.
	42.50	.0035	.0002	.0075	.0002	60. 90. 145.
	47.50	.0039	.0002	.0086	.0002	60. 90. 145.
	52.50	.0043	.0003	.0101	.0002	60. 90. 145.
	57.50	.0050	.0003	.0113	.0002	60. 90. 145.
	62.50	.0056	.0003	.0127	.0002	60. 90. 145.
	67.50	.0067	.0004	.0138	.0002	60. 90. 145.
	72.50	.0074	.0004	.0149	.0003	60. 90 145.
	77.50	.0080	.0005	.0162	.0003	60. 90. 145.
	82.50	.0089	.0005	.0173	.0005	60. 90. 145.
	87.50	.0095	.0006	.0184	.0005	60. 90. 145.
	92.50	.0094	.0007	.0199	.0006	60. 90. 145.
	97.50	.0104	.0006	.0206	.0005	60. 90. 145.
	102.50	.0107	.0005	.0216	.0005	60. 90. 145.
	107.50	.0108	.0006	.0224	.0005	60. 90. 145.
	112.50	.0116	.0006	.0226	.0006	60. 90. 145.
	117.50	.0122	.0007	.0228	.0006	60. 90. 145.
	122.50	.0117	.0006	.0235	.0005	60. 90. 145.
	127.50	.0120	.0006	.0235	.0004	60. 90. 145.
	132.50	.0122	.0007	.0234	.0005	60. 90. 145.
	137.50	.0124	.0007	.0229	.0006	60. 90. 145.
	142.50	.0122	.0007	.0225	.0006	60. 90. 145.
	147.50	.0116	.0007	.0220	.0005	60. 90. 145.
	152.50	.0103	.0007	.0218	.0005	60. 90. 135.
	157.50	.0096	.0008	.0212	.0006	60. 90 145.
	162.50	.0098	.0009	.0197	.0007	60. 90. 145.
	167.50	.0091	.0008	.0190	.0006	60. 90. 145.
	172.50	.0090	.0008	.0179	.0006	60. 90. 145.
	177.50	.0085	.0008	.0169	.0006	60. 90. 145.
	182.50	.0074	.0009	.0163	.0007	60. 90. 145.
	187.50	.0066	.0007	.0152	.0005	60. 90. 145.

Tableau II (suite 6)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
450.0	192.50	.0055	.0007	.0150	.0005	60. 90. 145.
	197.50	.0053	.0007	.0143	.0005	60. 90. 145.
	202.50	.0050	.0007	.0136	.0005	60. 90. 145.
	207.50	.0050	.0006	.0129	.0004	60. 90. 145.
	212.50	.0049	.0007	.0123	.0004	60. 90 145.
	217.50	.0038	.0008	.0123	.0005	60. 90. 145.
	222.50	.0032	.0007	.0125	.0004	60. 90. 145.
	227.50	.0030	.0008	.0125	.0004	60. 90. 145.
	232.50	.0032	.0009	.0120	.0005	60. 90. 145.
	237.50	.0035	.0009	.0118	.0005	60. 90. 145.
	242.50	.0029	.0009	.0125	.0005	60. 90. 145.
	247.50	.0031	.0012	.0132	.0007	60. 90. 145.
	252.50	.0029	.0012	.0135	.0007	60. 90. 145.
	257.50	.0032	.0012	.0142	.0006	60. 90. 145.
	262.50	.0032	.0014	.0149	.0007	60. 90. 145.
500.0	32.50	.0004	.0001	.0039	.0001	60. 90. 145.
	37.50	.0011	.0002	.0031	.0002	60. 90. 145.
	42.50	.0013	.0002	.0041	.0001	60. 90. 145.
	47.50	.0017	.0002	.0049	.0001	60. 90. 145.
	52.50	.0018	.0002	.0059	.0001	60. 90. 145.
	57.50	.0017	.0002	.0072	.0002	60. 90. 145.
	62.50	.0024	.0002	.0081	.0002	60. 90. 145.
	67.50	.0027	.0003	.0091	.0002	60. 90. 145.
	72.50	.0036	.0003	.0100	.0002	60. 90. 145
	77.50	.0046	.0003	.0106	.0002	60. 90. 145.
	82.50	.0049	.0003	.0119	.0002	60. 90 145.
	87.50	.0055	.0003	.0130	.0002	60. 90 145.
	92.50	.0061	.0004	.0140	.0003	60. 90. 145.
	97.50	.0066	.0005	.0152	.0004	60. 90. 145.
	102.50	.0073	.0006	.0161	.0005	60. 90. 145.
	107.50	.0077	.0007	.0169	.0006	60. 90. 145.
	112.50	.0083	.0006	.0176	.0005	60. 90. 145.
	117.50	.0085	.0007	.0190	.0005	60. 90. 145.

Tableau II (suite 7)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
500.0	122.50	.0086	.0008	.0199	.0006	60. 90. 145.
	127.50	.0095	.0009	.0199	.0007	60. 90. 145.
	132.50	.0094	.0009	.0208	.0007	60. 90 145.
	137.50	.0100	.0009	.0209	.0005	60. 90. 145.
	142.50	.0092	.0009	.0216	.0005	60. 90. 145.
	147.50	.0083	.0010	.0223	.0005	60. 90. 145.
	152.50	.0089	.0011	.0221	.0006	60 90. 145.
	157.50	.0091	.0011	.0217	.0005	60. 90. 145.
	162.50	.0089	.0012	.0218	.0005	60. 90. 145.
	167.50	.0086	.0012	.0215	.0005	60. 90. 145.
	172.50	.0082	.0012	.0213	.0006	60. 90. 145.
	177.50	.0092	.0010	.0202	.0005	60. 90. 145.
	182.50	.0086	.0010	.0194	.0005	60. 90. 145.
	187.50	.0080	.0011	.0188	.0006	60. 90. 145.
	192.50	.0082	.0012	.0182	.0007	60. 90. 145.
	197.50	.0076	.0011	.0176	.0006	60. 90. 145.
	202.50	.0076	.0010	.0164	.0006	60. 90. 145.
	207.50	.0077	.0011	.0156	.0006	60. 90. 145.
	212.50	.0060	.0011	.0159	.0006	60. 90. 145
	217.50	.0053	.0010	.0148	.0005	60. 90. 145.
	222.50	.0046	.0010	.0143	.0005	60. 90. 145.
	227.50	.0043	.0012	.0142	.0006	60. 90. 145.
	232.50	.0039	.0010	.0137	.0004	60. 90. 145.
	237.50	.0037	.0009	.0132	.0004	60. 90. 145.
	242.50	.0041	.0010	.0129	.0005	60. 90. 145.
	247.50	.0034	.0009	.0128	.0004	60. 90 145.
	252.50	.0028	.0009	.0131	.0004	60. 90. 145.
	257.50	.0023	.0009	.0133	.0004	60. 90. 145.
	262.50	.0025	.0011	.0133	.0005	60. 90. 145.
	267.50	.0018	.0010	.0136	.0005	60. 90. 145.
	272.50	.0016	.0011	.0142	.0005	60. 90. 145.
	277.50	.0016	.0013	.0149	.0006	60. 90. 145.
	282.50	.0025	.0013	.0147	.0006	60. 90. 145.

Tableau II (suite 8)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
500.0	287.50	.0015	.0013	.0159	.0006	60. 90. 145
	292.50	.0006	.0016	.0169	.0008	60. 90. 145.
	297.50	.0014	.0016	.0172	.0007	60. 90. 145.
	302.50	.0013	.0016	.0179	.0006	60. 90. 145.
	307.50	.0013	.0020	.0188	.0009	60. 90. 145.
	312.50	.0022	.0019	.0193	.0008	60. 90. 145
550.0	37.50	.0001	.0001	.0018	.0000	60. 90. 145.
	42.50	.0005	.0001	.0019	.0000	60. 90 145.
	47.50	.0007	.0001	.0023	.0000	60. 90. 145.
	52.50	.0007	.0001	.0028	.0001	60. 90. 145.
	57.50	.0008	.0001	.0035	.0001	60. 90. 145.
	62.50	.0012	.0002	.0041	.0001	60. 90. 145.
	67.50	.0014	.0002	.0047	.0001	60. 90. 145.
	72.50	.0014	.0002	.0057	.0001	60. 90. 145.
	77.50	.0017	.0003	.0066	.0002	60. 90. 145.
	82.50	.0025	.0003	.0070	.0002	60. 90. 145.
	87.50	.0028	.0003	.0080	.0002	60. 90. 145.
	92.50	.0034	.0003	.0088	.0002	60. 90. 145.
	97.50	.0034	.0003	.0098	.0002	60. . 145.
	102.50	.0037	.0004	.0108	.0002	60. 90. 145.
	107.50	.0045	.0004	.0116	.0003	60. 90. 145.
	112.50	.0046	.0005	.0126	.0003	60. 90. 145.
	117.50	.0047	.0005	.0137	.0003	60. 90. 145.
	122.50	.0052	.0005	.0144	.0003	60 90. 145.
	127.50	.0060	.0005	.0156	.0003	60. 90. 145.
	132.50	.0061	.0007	.0165	.0005	60. 90. 145.
	137.50	.0067	.0008	.0166	.0006	60. 90. 145.
	142.50	.0066	.0007	.0177	.0005	60. 90. 145.
	147.50	.0070	.0008	.0183	.0006	60. 90. 145.
	152.50	.0074	.0009	.0185	.0006	60. 90. 145.
	157.50	.0075	.0009	.0189	.0006	60. 90. 145.
	162.50	.0076	.0009	.0196	.0006	60. 90. 145.
	167.50	.0080	.0009	.0197	.0005	60. 90. 145.

Tableau II (suite 9)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
550.0	172.50	.0078	.0009	.0199	.0005	60. 90. 145
	177.50	.0080	.0011	.0200	.0006	60. 90. 145.
	182.50	.0079	.0010	.0200	.0005	60. 90. 145.
	187.50	.0074	.0010	.0200	.0005	60. 90. 145.
	192.50	.0066	.0011	.0202	.0005	60. 90. 145.
	197.50	.0063	.0012	.0199	.0006	60. 90. 145.
	202.50	.0059	.0012	.0194	.0006	60. 90. 145.
	207.50	.0064	.0010	.0189	.0005	60. 90. 145.
	212.50	.0057	.0010	.0184	.0005	60. 145.
	217.50	.0055	.0011	.0180	.0006	60. 145.
	222.50	.0062	.0011	.0171	.0008	60. 145.
	227.50	.0055	.0011	.0166	.0007	60. 145.
	232.50	.0051	.0010	.0160	.0006	60. 145.
	237.50	.0056	.0011	.0153	.0007	60. 145.
	242.50	.0038	.0011	.0160	.0007	60. 145.
	247.50	.0046	.0010	.0147	.0005	60. 145.
	252.50	.0047	.0010	.0139	.0005	60. 145.
	257.50	.0039	.0011	.0141	.0005	60. 145.
	262.50	.0033	.0011	.0138	.0005	60. 145.
	267.50	.0045	.0011	.0131	.0005	60. 145.
	272.50	.0039	.0010	.0128	.0005	60. 145.
	277.50	.0030	.0009	.0131	.0005	60. 145.
	282.50	.0021	.0011	.0132	.0006	60. 145.
	287.50	.0022	.0011	.0135	.0006	60. 145.
	292.50	.0021	.0011	.0136	.0006	60. 145.
	297.50	.0028	.0013	.0135	.0008	60. 145
	302.50	.0026	.0013	.0141	.0008	60. 145.
	307.50	.0022	.0013	.0146	.0007	60. 145.
	312.50	.0020	.0017	.0151	.0010	60. 145.
	317.50	.0025	.0017	.0154	.0010	60. 145.
	322.50	.0027	.0016	.0158	.0008	60. 145.
	327.50	.0031	.0019	.0163	.0011	60. 145.

Tableau II (suite 10)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
550.0	332.50	.0030	.0018	.0176	.0009	60		145.
	337.50	.0026	.0018	.0186	.0009	60		145.
	342.50	.0029	.0023	.0192	.0012	60		145.
	347.50	.0031	.0020	.0203	.0009	60		145.
	352.50	.0020	.0021	.0214	.0009	60		145.
	357.50	.0013	.0025	.0223	.0011	60		145.
	362.50	.0017	.0024	.0228	.0009	60		145.
	367.50	.0020	.0027	.0237	.0011	60.		145.
600.0	42.50	.0001	.0000	.0007	.0000	60.	90.	145.
	47.50	.0000	.0001	.0011	.0000	60.	90.	145.
	52.50	.0000	.0001	.0014	.0000	60.	90.	145.
	57.50	.0002	.0001	.0015	.0000	60.	90.	145.
	62.50	.0002	.0001	.0020	.0001	60.	90.	145.
	67.50	.0004	.0001	.0023	.0001	60.	90.	145.
	72.50	.0005	.0001	.0027	.0001	60.	90.	145.
	77.50	.0008	.0001	.0031	.0001	60.	90.	145.
	82.50	.0012	.0001	.0034	.0001	60.	90.	145.
	87.50	.0014	.0002	.0039	.0001	60.	90.	145.
	92.50	.0017	.0002	.0045	.0001	60.	90.	145.
	97.50	.0019	.0002	.0050	.0001	60.	90.	145.
	102.50	.0022	.0002	.0057	.0002	60.	90.	145.
	107.50	.0020	.0003	.0067	.0002	60.	90.	145.
	112.50	.0023	.0003	.0074	.0002	60.	90.	145.
	117.50	.0030	.0003	.0079	.0002	60.	90.	145.
	122.50	.0028	.0005	.0090	.0002	60.		145.
	127.50	.0026	.0003	.0099	.0002	60.		145.
	132.50	.0032	.0004	.0106	.0002	60.		145.
	137.50	.0037	.0004	.0115	.0003	60.		145.
	142.50	.0042	.0004	.0124	.0002	60.		145.
	147.50	.0045	.0005	.0127	.0002	60.		145.
	152.50	.0052	.0005	.0131	.0003	60.		145.
	157.50	.0051	.0006	.0138	.0003	60		145.
	162.50	.0056	.0006	.0141	.0004	60		145.

Tableau II (suite 11)

q(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)	
600.0	167.50	.0053	.0006	.0149	.0004	60.	145.
	172.50	.0055	.0007	.0159	.0005	60.	145.
	177.50	.0057	.0007	.0171	.0006	60.	145.
	182.50	.0052	.0008	.0181	.0007	60.	145.
	187.50	.0048	.0009	.0186	.0008	60.	145.
	192.50	.0056	.0009	.0182	.0007	60.	145.
	197.50	.0065	.0008	.0179	.0005	60.	145.
	202.50	.0064	.0009	.0180	.0005	60.	145.
	207.50	.0052	.0010	.0186	.0006	60.	145.
	212.50	.0047	.0010	.0193	.0005	60.	145.
	217.50	.0057	.0011	.0189	.0006	60.	145.
	222.50	.0060	.0012	.0182	.0006	60.	145.
	227.50	.0061	.0012	.0177	.0005	60.	145.

Tableau III

q_μ(MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
200.0	12.50	.0596	.0081	-.0039	.0065		60.	90.	
	17.50	.0317	.0031	.0042	.0031	36.	60.	90.	
	22.50	.0323	.0030	.0120	.0031	36.	60.	90.	
	27.50	.0437	.0032	.0085	.0034	36.	60.	90.	
	32.50	.0410	.0032	.0114	.0036	36.	60.	90.	
	37.50	.0359	.0032	.0145	.0038	36.	60	90.	
	42.50	.0337	.0029	.0152	.0034	36.	60.	90.	
	47.50	.0329	.0026	.0140	.0028	36.	60.	90.	
	52.50	.0321	.0024	.0121	.0025	36.	60.	90.	
	57.50	.0284	.0024	.0118	.0024	36.	60.	90.	
	62.50	.0259	.0023	.0104	.0025	36.	60.	90.	
	67.50	.0231	.0019	.0097	.0020	36.	60.	90.	
	72.50	.0203	.0018	.0087	.0018	36.	60.	90.	
	77.50	.0193	.0018	.0059	.0019	36.	60.	90.	
	82.50	.0177	.0017	.0051	.0016	36.	60.	90.	
	87.50	.0150	.0016	.0056	.0015	36.	60.	90.	
	92.50	.0126	.0018	.0060	.0018	36.	60.	90.	
	97.50	.0112	.0018	.0054	.0018	36.	60.	90.	
250.0	12.50	.0588	.0010	.0001	.0003		60.	90.	145.
	17.50	.0304	.0006	.0060	.0003	36.	60.	90.	145.
	22.50	.0266	.0006	.0106	.0003	36.	60.	90.	145.
	27.50	.0290	.0006	.0119	.0004	36.	60.	90.	145.
	32.50	.0327	.0006	.0125	.0005	36.	60.	90.	145.
	37.50	.0332	.0007	.0152	.0005	36.	60.	90.	145.
	42.50	.0325	.0008	.0180	.0006	36.	60.	90.	145.
	47.50	.0326	.0009	.0198	.0007	36.	60.	90.	145.
	52.50	.0321	.0010	.0208	.0009	36.	60.	90.	145.
	57.50	.0312	.0011	.0208	.0010	36.	60.	90.	145.
	62.50	.0303	.0010	.0200	.0008	36.	60	90.	145.
	67.50	.0290	.0009	.0184	.0007	36.	60	90.	145.
	72.50	.0269	.0008	.0169	.0007	36.	60.	90.	145.
	77.50	.0254	.0015	.0150	.0013	36.	60.	90.	

Tableau III (suite 1)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
250.0	82.50	.0233	.0016	.0136	.0017	36.	60.	90.
	87.50	.0208	.0015	.0126	.0015	36.	60.	90.
	92.50	.0180	.0015	.0121	.0014	36.	60.	90.
	97.50	.0169	.0014	.0102	.0013	36.	60.	90.
	102.50	.0145	.0014	.0099	.0012	36.	60.	90.
	107.50	.0134	.0015	.0089	.0014	36.	60.	90.
	112.50	.0123	.0015	.0078	.0014	36.	60.	0.
	117.50	.0107	.0012	.0077	.0011	36.	60.	90.
	122.50	.0099	.0012	.0072	.0011	36.	60.	90.
	127.50	.0091	.0012	.0067	.0012	36.	60.	90.
	132.50	0076	.0011	.0071	.0009	36.	60.	90.
	137.50	.0065	.0014	.0073	.0011	36.	60.	90.
	142.50	.0060	.0014	.0071	.0011	36.	60.	90.
	147.50	.0059	.0013	.0066	.0010	36.	60.	90.
	152.50	.0053	.0012	.0066	.0009	36.	60.	90.
	157.50	.0049	.0013	.0066	.0010	36.	60.	90.
	162.50	.0044	.0014	.0068	.0011	36.	60.	90.
	167.50	.0046	.0016	.0066	.0012	36.	60.	90.
	172.50	.0052	.0016	.0063	.0013	36.	60.	90.
	177.50	.0058	.0014	.0059	.0010	36.	60.	90.
	182.50	.0068	.0017	.0054	.0013	36.	60.	90.
	187.50	.0058	.0016	.0066	.0011	36.	60.	90.
	192.50	.0043	.0017	.0076	.0013	36.	60.	90.
	197.50	.0044	.0015	.0082	.0011	36.	60.	90.
	202.50	.0039	.0018	.0089	.0013	36.	60.	90.
	207.50	.0021	.0019	.0107	.0012	36.	60.	90.
	212.50	.0015	.0021	.0119	.0014	36.	60.	90.

Tableau III (suite 2)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
300.0	17.50	.0292	.0004	.0021	.0002	36.	60.	90.	145.
	22.50	.0201	.0005	.0119	.0005	36.	60.	90.	145.
	27.50	.0209	.0004	.0104	.0003	36.	60.	90.	145.
	32.50	.0247	.0005	.0107	.0003	36.	60.	90.	145.
	37.50	.0247	.0005	.0129	.0003	36.	60.	90.	145.
	42.50	.0256	.0006	.0157	.0004	36.	60.	90.	145.
	47.50	.0256	.0006	.0184	.0005	36.	60.	90.	145.
	52.50	.0258	.0006	.0205	.0005	36.	60.	90.	145.
	57.50	.0261	.0007	.0217	.0006	36.	60.	90.	145.
	62.50	.0263	.0008	.0223	.0007	36.	60.	90.	145.
	67.50	.0262	.0009	.0226	.0008	36.	60.	90.	145.
	72.50	.0259	.0009	.0228	.0008	36.	60.	90.	145.
	77.50	.0244	.0009	.0230	.0008	36.	60.	90.	145.
	82.50	.0232	.0008	.0222	.0007	36.	60.	90.	145.
	87.50	.0228	.0009	.0209	.0008	36.	60.	90.	145.
	92.50	.0215	.0008	.0200	.0007	36.	60.	90.	145.
	97.50	.0198	.0007	.0191	.0006	36.	60.	90.	145.
	102.50	.0185	.0008	.0181	.0006	36.	60.	90.	145.
	107.50	.0171	.0008	.0168	.0006	36.	60.	90.	145.
	112.50	.0161	.0007	.0156	.0005	36.	60.	90.	145.
	117.50	.0151	.0006	.0143	.0005	36.	60.	90.	145.
	122.50	.0138	.0007	.0134	.0006	36.	60.	90.	145.
	127.50	.0120	.0007	.0130	.0005	36.	60.	90.	145.
	132.50	.0106	.0007	.0124	.0005	36.	40.	90.	145.
	137.50	.0102	.0008	.0114	.0006	36.	60.	90.	145.
	142.50	.0096	.0006	.0107	.0005	36.	60.	90.	145.
	147.50	.0089	.0006	.0101	.0005	36.	60.	90.	145.
	152.50	.0076	.0012	.0103	.0011	36.	60.	90.	
	157.50	.0074	.0010	.0096	.0008	36.	60.	90.	
	162.50	.0069	.0010	.0095	.0009	36.	60.	90.	
	167.50	.0056	.0013	.0101	.0011	36.	60.	90.	
	172.50	.0064	.0012	.0092	.0010	36.	60.	90.	

Tableau III (suite 3)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
300.0	177.50	.0040	.0011	.0103	.0010	36. 60. 90.
	182.50	.0027	.0012	.0114	.0011	36. 60. 90.
	187.50	.0024	.0012	.0112	.0009	36. 60. 90.
	192.50	.0023	.0014	.0112	.0011	36. 60. 90.
	197.50	.0030	.0012	.0110	.0009	36. 60. 90.
	202.50	.0028	.0011	.0114	.0008	36. 60. 90.
	207.50	.0028	.0011	.0113	.0009	36. 60. 90.
	212.50	.0029	.0012	.0118	.0008	36. 60. 90.
	217.50	.0036	.0014	.0118	.0009	36. 60. 90.
	222.50	.0042	.0015	.0117	.0010	36. 60. 90.
	227.50	.0046	.0014	.0121	.0009	36. 60. 90.
	232.50	.0027	.0017	.0142	.0012	36. 60. 90.
	237.50	.0034	.0018	.0139	.0012	36. 60. 90.
	242.50	.0048	.0025	.0144	.0016	36. 60. 90.
	247.50	.0033	.0019	.0155	.0011	36. 60. 90.
	252.50	.0021	.0020	.0169	.0013	36. 60. 90.
	257.50	.0039	.0019	.0167	.0011	36. 60. 90.
	262.50	.0035	.0025	.0178	.0014	36. 60. 90.
	267.50	.0050	.0020	.0178	.0011	36. 60. 90.
	272.50	.0046	.0022	.0187	.0013	36. 60. 90.
	277.50	.0041	.0023	.0196	.0013	36. 60. 90.
	282.50	.0050	.0028	.0200	.0015	36. 60. 90.
	287.50	.0025	.0027	.0219	.0016	36. 60. 90.
	292.50	.0021	.0031	.0229	.0018	36. 60. 90.
350.0	17.50	.0175	.0002	.0022	.0001	36. 60. 90. 145.
	22.50	.0117	.0003	.0089	.0003	36. 60. 90. 145.
	27.50	.0107	.0003	.0110	.0003	36. 60. 90. 145.
	32.50	.0129	.0003	.0097	.0003	36. 60. 90. 145.
	37.50	.0141	.0004	.0114	.0003	36. 60. 90. 145.
	42.50	.0151	.0004	.0131	.0004	36. 60. 90. 145.
	47.50	.0160	.0004	.0152	.0004	36. 60. 90. 145.
	52.50	.0169	.0005	.0171	.0005	36. 60. 90. 145.

Tableau III (suite 4)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)			
350.0	57.50	.0174	.0005	.0192	.0005	36.	60.	90.	145.
	62.50	.0186	.0005	.0206	.0005	36.	60.	90.	145.
	67.50	.0199	.0005	.0213	.0005	36.	60.	90.	145.
	72.50	.0204	.0006	.0222	.0006	36.	60.	90.	145.
	77.50	.0200	.0006	.0234	.0006	36.	60.	90.	145.
	82.50	.0205	.0006	.0240	.0005	36.	60.	90.	145.
	87.50	.0207	.0007	.0243	.0005	36.	60.	90.	145.
	92.50	.0199	.0008	.0244	.0006	36.	60.	90.	145.
	97.50	.0191	.0009	.0244	.0008	36.	60.	90.	145.
	102.50	.0186	.0010	.0240	.0008	36.	60.	90.	145.
	107.50	.0183	.0008	.0230	.0007	36.	60.	90.	145.
	112.50	.0177	.0008	.0221	.0007	36.	60.	90.	145.
	117.50	.0170	.0008	.0215	.0007	36.	60.	90.	145.
	122.50	.0160	.0006	.0204	.0005	36.	60.	90.	145.
	127.50	.0153	.0006	.0193	.0005	36.	60.	90.	145.
	132.50	.0145	.0007	.0182	.0006	36.	60.	90.	145.
	137.50	.0131	.0006	.0173	.0005	36.	60.	90.	145.
	142.50	.0123	.0006	.0164	.0005	36.	60.	90.	145.
	147.50	.0116	.0007	.0158	.0006	36.	60.	90.	145.
	152.50	.0099	.0006	.0147	.0005	36.	60.	90.	145.
	157.50	.0090	.0006	.0139	.0005	36.	60.	90.	145.
	162.50	.0079	.0007	.0136	.0005	36.	60.	90.	145.
	167.50	.0081	.0006	.0124	.0004	36.	60.	90.	145.
	172.50	.0078	.0006	.0119	.0005	36.	60.	90.	145.
	177.50	.0069	.0006	.0118	.0004	36.	60.	90.	145.
	182.50	.0056	.0005	.0118	.0004	36.	60.	90.	145.
	187.50	.0055	.0005	.0113	.0004	36.	60.	90.	145.
	192.50	.0055	.0005	.0110	.0004	36.	60.	90.	145.
	197.50	.0051	.0005	.0111	.0004	36.	60.	90.	145.
	202.50	.0044	.0006	.0113	.0005	36.	60.	90.	145.
	207.50	.0045	.0006	.0111	.0004	36.	60.	90.	145.

Tableau III (suite 5)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
350.0	212.50	.0055	.0009	.0103	.0006	60. 90. 145.
	217.50	.0047	.0008	.0108	.0005	60. 90. 145.
	222.50	.0041	.0010	.0113	.0006	60. 90. 145.
	227.50	.0041	.0009	.0116	.0005	60. 90. 145.
	232.50	.0041	.0009	.0118	.0005	60. 90. 145.
	237.50	.0039	.0009	.0123	.0005	60. 90. 145.
400.0	22.50	.0069	.0001	.0039	.0001	36. 60. 90. 145.
	27.50	.0047	.0002	.0098	.0002	36. 60. 90. 145.
	32.50	.0072	.0002	.0077	.0002	36. 60. 90. 145.
	37.50	.0071	.0002	.0091	.0002	36. 60. 90. 145.
	42.50	.0081	.0003	.0105	.0003	36. 60. 90. 145.
	47.50	.0088	.0003	.0120	.0003	36. 60. 90. 145.
	52.50	.0097	.0004	.0136	.0004	36. 60. 90. 145.
	57.50	.0106	.0004	.0152	.0004	36. 60. 90. 145.
	62.50	.0114	.0005	.0169	.0005	36. 60. 90. 145.
	67.50	.0123	.0005	.0179	.0004	60. 90. 145.
	72.50	.0139	.0006	.0187	.0004	60 90. 145.
	77.50	.0146	.0007	.0197	.0005	60. 90. 145.
	82.50	.0145	.0007	.0212	.0006	60. 90. 145.
	87.50	.0141	.0006	.0225	.0005	60. 90. 145.
	92.50	.0148	.0006	.0231	.0004	60. 90. 145.
	97.50	.0149	.0006	.0237	.0005	60. 90. 145.
	102.50	.0153	.0007	.0239	.0006	60. 90. 145.
	107.50	.0157	.0007	.0240	.0006	60. 90. 145.
	112.50	.0145	.0007	.0247	.0006	60. 90. 145.
	117.50	.0143	.0008	.0246	.0006	60. 90. 145.
	122.50	.0147	.0009	.0239	.0008	60. 90. 145.
	127.50	.0146	.0009	.0231	.0008	60. 90. 145.
	132.50	.0141	.0007	.0226	.0006	60. 90. 145.
	137.50	.0134	.0008	.0218	.0006	60. 90. 145.

Tableau III (suite 6)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)
400.0	142.50	.0117	.0009	.0216	.0007	60. 90. 145.
	147.50	.0104	.0009	.0211	.0006	60. 90. 145.
	152.50	.0104	.0008	.0199	.0006	60. 90. 145.
	157.50	.0098	.0007	.0191	.0005	60. 90. 145.
	162.50	.0094	.0007	.0182	.0005	60. 90. 145.
	167.50	.0095	.0007	.0171	.0005	60. 90. 145.
	172.50	.0090	.0007	.0163	.0004	60. 90. 145.
	177.50	.0079	.0008	.0158	.0006	60. 90. 145.
	182.50	.0073	.0007	.0150	.0005	60. 90. 145.
	187.50	.0064	.0007	.0146	.0005	60. 90. 145.
	192.50	.0056	.0008	.0145	.0006	60. 90. 145.
	197.50	.0053	.0007	.0139	.0004	60. 90. 145.
	202.50	.0049	.0008	.0134	.0006	60. 90. 145.
	207.50	.0051	.0006	.0129	.0004	60. 90. 145.
	212.50	.0052	.0008	.0124	.0005	60. 90. 145.
	217.50	.0038	.0009	.0124	.0004	60. 90. 145.
	222.50	.0035	.0008	.0124	.0005	60. 90. 145.
	227.50	.0031	.0007	.0126	.0005	60. 90. 145
	232.50	.0031	.0008	.0125	.0005	60. 90. 145.
	237.50	.0032	.0009	.0123	.0005	60. 90. 145.
	242.50	.0032	.0010	.0123	.0005	60. 90. 145.
	247.50	.0032	.0010	.0123	.0005	60. 90. 145.
	252.50	.0027	.0009	.0128	.0005	60. 90. 145.
	257.50	.0021	.0011	.0135	.0005	60. 90. 145
	262.50	.0019	.0012	.0141	.0005	60. 90. 145.
	267.50	.0023	.0011	.0143	.0004	60. 90. 145.
	272.50	.0027	.0013	.0144	.0005	60. 90. 145.
	277.50	.0023	.0016	.0150	.0006	60. 90. 145.
	282.50	.0013	.0014	.0161	.0006	60. 90. 145.
	287.50	.0007	.0017	.0167	.0007	60. 90. 145.
	292.50	.0010	.0018	.0171	.0007	60. 90. 145.

Tableau III (suite 7)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
400.0	297.50	.0012	.0018	.0174	.0008	60.	90.	145.
	302.50	.0013	.0016	.0179	.0006	60.	90.	145.
	307.50	.0017	.0018	.0184	.0007	60.	90.	145.
	312.50	.0017	.0017	.0190	.0007	60.	90.	145.
	317.50	.0027	.0020	.0189	.0009	60.		145
	322.50	.0034	.0019	.0193	.0009	60.		145.
	327.50	.0039	.0024	.0198	.0012	60.		145.
	332.50	.0042	.0025	.0202	.0012	60.		145.
	337.50	.0042	.0029	.0204	.0013	60.		145.
450.0	27.50	.0021	.0002	.0053	.0002	60.	90.	145.
	32.50	.0027	.0001	.0057	.0001	60.	90.	145.
	37.50	.0031	.0001	.0060	.0001	60.	90.	145.
	42.50	.0034	.0002	.0074	.0002	60.	90.	145.
	47.50	.0037	.0002	.0084	.0002	60.	90.	145.
	52.50	.0041	.0003	.0099	.0002	60.	90.	145.
	57.50	.0046	.0003	.0111	.0002	60.	90.	145.
	62.50	.0052	.0003	.0123	.0002	60.	90.	145.
	67.50	.0062	.0003	.0134	.0003	60.	90.	145.
	72.50	.0071	.0004	.0143	.0003	60.	90.	145.
	77.50	.0075	.0004	.0155	.0004	60.	90.	145.
	82.50	.0081	.0006	.0167	.0006	60.	90.	145.
	87.50	.0089	.0005	.0175	.0005	60.	90.	145.
	92.50	.0091	.0005	.0187	.0004	60.	90.	145.
	97.50	.0094	.0005	.0196	.0004	60.	90.	145.
	102.50	.0102	.0005	.0203	.0004	60.	90.	145.
	107.50	.0104	.0006	.0211	.0005	60.	90.	145.
	112.50	.0103	.0006	.0218	.0005	60.	90.	145.
	117.50	.0112	.0006	.0217	.0005	60.	90.	145.
	122.50	.0115	.0006	.0223	.0005	60.	90.	145.
	127.50	.0115	.0006	.0225	.0005	60.	90.	145.

Tableau III (suite 8)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
450.0	132.50	.0112	.0007	.0227	.0005	60.	90.	145.
	137.50	.0108	.0009	.0231	.0006	60.	90.	145.
	142.50	.0110	.0009	.0230	.0007	60.	90.	145.
	147.50	.0108	.0008	.0227	0006	60.	90.	145.
	152.50	.0105	.0008	.0224	.0007	60.	90.	145.
	157.50	.0101	.0009	.0218	.0007	60.	90.	145.
	162.50	.0093	.0008	.0218	.0005	60.	90.	145.
	167.50	.0091	.0008	.0213	.0006	60.	90.	145.
	172.50	.0098	.0010	.0199	.0006	60.	90.	145.
	177.50	.0087	.0009	.0194	.0005	60.	90.	145.
	182.50	.0083	.0009	.0188	.0005	60.	90.	145.
	187.50	.0086	.0010	.0181	.0006	60.	90.	145.
	192.50	.0080	.0010	.0176	.0005	60.	90.	145.
	197.50	.0073	.0012	.0169	.0006	60.	90.	145.
	202.50	.0082	.0013	.0155	.0007	60.	90.	145.
	207.50	.0071	.0010	.0157	.0006	60.	90.	145.
	212.50	.0057	.0011	.0157	.0006	60.	90.	145.
	217.50	.0054	.0010	.0146	.0005	60.	90.	145.
	222.50	.0046	.0011	.0144	.0005	60.	90.	145.
	227.50	.0044	.0009	.0144	.0005	60.	90.	145.
	232.50	.0042	.0008	.0140	.0004	60.	90.	145.
	237.50	.0038	.0010	.0137	.0005	60.	90.	145.
	242.50	.0036	.0009	.0134	.0004	60.	90.	145.
	247.50	.0043	.0009	.0130	.0005	60.	90.	145.
	252.50	.0041	.0008	.0129	.0004	60.	90.	145
	257.50	.0034	.0011	.0129	.0006	60.	90.	145.
	262.50	.0025	.0010	.0134	.0005	60.	90.	145.
	267.50	.0016	.0011	.0138	.0006	60.	90.	145.
	272.50	.0017	.0010	.0137	.0005	60.		145.
	277.50	.0023	.0012	.0136	.0006	60.		145.
	282.50	.0017	.0011	.0137	.0005	60		145.
	287.50	.0021	.0012	.0137	.0006	60.		145.

Tableau III (suite 9)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
450.0	292.50	.0024	.0012	.0140	.0005	60.		145.
	297.50	.0025	.0016	.0144	.0007	60.		145.
	302.50	.0023	.0013	.0146	.0006	60.		145.
	307.50	.0021	.0017	.0150	.0009	60.		145.
	312.50	.0021	.0017	.0152	.0008	60.		145.
	317.50	.0026	.0018	.0154	.0010	60.		145.
	322.50	.0027	.0016	.0158	.0009	60.		145.
	327.50	.0019	.0017	.0163	.0008	60.		145.
	332.50	.0026	.0017	.0167	.0009	60.		145.
	337.50	.0020	.0015	.0178	.0007	60.		145.
	342.50	.0008	.0018	.0190	.0009	60.		145.
	347.50	.0005	.0016	.0196	.0007	60.		145.
	352.50	.0007	.0017	.0197	.0008	60.		145.
	357.50	.0010	.0021	.0199	.0010	60.		145.
	362.50	.0005	.0020	.0209	.0009	60.		145.
	367.50	-.0005	.0027	.0218	.0013	60.		145.
	372.50	-.0019	.0026	.0224	.0011	60.		145.
	377.50	-.0015	.0024	.0229	.0010	60.		145.
	382.50	-.0006	.0031	.0233	.0013	60.		145.
500.0	32.50	.0003	.0001	.0039	.0001	60.	90.	145.
	37.50	.0010	.0002	.0031	.0002	60.	90.	145.
	42.50	.0012	.0002	.0040	.0001	60.	90.	145.
	47.50	.0016	.0002	.0048	.0001	60.	90.	145.
	52.50	.0017	.0002	.0057	.0001	60.	90.	145.
	57.50	.0016	.0002	.0069	.0001	60.	90.	145.
	62.50	.0022	.0002	.0078	.0001	60.	90.	145.
	67.50	.0026	.0002	.0087	.0002	60.	90.	145.
	72.50	.0032	.0003	.0096	.0002	60.	90.	145.
	77.50	.0042	.0003	.0102	.0002	60.	90.	145.
	82.50	.0046	.0003	.0113	.0002	60.	90.	145.
	87.50	.0051	.0003	.0122	.0002	60.	90.	145.

Tableau III (suite 10)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)		
500.0	92.50	.0056	.0005	.0130	.0003	60.	90.	145.
	97.50	.0058	.0006	.0142	.0004	60.	90.	145.
	102.50	.0064	.0006	.0150	.0004	60.	90.	145.
	107.50	.0067	.0007	.0158	.0005	60.	90.	145.
	112.50	.0067	.0009	.0166	.0005	60.	90.	145.
	117.50	.0075	.0010	.0172	.0006	60.	90.	145.
	122.50	.0073	.0009	.0188	.0005	60.	90.	145.
	127.50	.0080	.0008	.0190	.0005	60.	90.	145.
	132.50	.0084	.0008	.0192	.0005	60.	90.	145.
	137.50	.0084	.0008	.0199	.0005	60.	90.	145.
	142.50	.0090	.0009	.0199	.0006	60.	90.	145.
	147.50	.0083	.0009	.0205	.0005	60.	90.	145.
	152.50	.0075	.0009	.0212	.0005	60.	90.	145.
	157.50	.0083	.0009	.0212	.0005	60.	90.	145.
	162.50	.0092	.0010	.0204	.0007	60.	90.	145.
	167.50	.0088	.0009	.0207	.0006	60.	90.	145.
	172.50	.0082	.0009	.0209	.0006	60.	90.	145.
	177.50	.0082	.0010	.0206	.0006	60.	90.	145.
	182.50	.0082	.0009	.0204	.0006	60.	90.	145.
	187.50	.0079	.0009	.0202	.0005	60.	90.	145.
	192.50	.0076	.0011	.0196	.0006	60.	90.	145.
	197.50	.0066	.0010	.0193	.0005	60.	90.	145.
	202.50	.0067	.0009	.0189	.0005	60.	90.	145.
	207.50	.0065	.0009	.0186	.0005	60.	90.	145.
	212.50	.0055	.0010	.0182	.0006	60.	90.	145.
	217.50	.0054	.0011	.0175	.0005	60.	90.	145.
	222.50	.0065	.0012	.0168	.0007	60.		145.
	227.50	.0053	.0011	.0166	.0007	60.		145.
	232.50	.0051	.0010	.0160	.0007	60.		145.
	237.50	.0058	.0012	.0152	.0007	60.		145.
	242.50	.0043	.0010	.0157	.0005	60.		145.
	247.50	.0036	.0009	.0156	.0006	60.		145.

Tableau III (suite 11)

q_μ (MeV/c)	ω(MeV)	R_L	ΔR_L	R_T	ΔR_T	θ(deg)	
500.0	252.50	.0044	.0009	.0143	.0005	60.	145.
	257.50	.0045	.0009	.0138	.0005	60.	145.
	262.50	.0039	.0009	.0139	.0005	60.	145.
	267.50	.0032	.0008	.0139	.0005	60.	145.
	272.50	.0030	.0009	.0136	.0006	60.	145.
	277.50	.0036	.0011	.0131	.0006	60.	145.
	282.50	.0030	.0010	.0129	.0006	60.	145.
	287.50	.0028	.0012	.0129	.0008	60.	145.
	292.50	.0026	.0010	.0130	.0006	60.	145.
	297.50	.0018	.0012	.0134	.0007	60.	145.
	302.50	.0010	.0010	.0140	.0005	60.	145.
	307.50	.0004	.0011	.0147	.0006	60.	145.
	312.50	.0006	.0012	.0149	.0005	60.	145.

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