NPR Z_{ij}/Z_V^2

Rajnandini Mukherjee

January 12, 2023

C0	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.934234(44) & 0 & 0 & 0 & 0 \\ 0 & 1.054962(18) & 0.33562(10) & 0 & 0 \\ 0 & 0.026112(14) & 0.72413(17) & 0 & 0 \\ 0 & 0 & 0 & 0.78808(19) & -0.02187(22) \\ 0 & 0 & 0 & -0.3138(12) & 1.127803(66) \end{bmatrix}$	$\begin{bmatrix} 0.914281(35) & 0 & 0 & 0 & 0 \\ 0 & 1.049854(12) & 0.277590(57) & 0 & 0 \\ 0 & 0.038174(20) & 0.881767(64) & 0 & 0 \\ 0 & 0 & 0 & 0.926309(72) & -0.03783(16) \\ 0 & 0 & 0 & -0.25071(78) & 1.037727(13) \end{bmatrix}$	$\begin{bmatrix} 0.978642(59) & 0 & 0 & 0 & 0 \\ 0 & 0.997109(18) & -0.0788(18) & 0 & 0 \\ 0 & 0.006116(19) & 1.21484(33) & 0 & 0 \\ 0 & 0 & 0 & 1.17108(26) & -0.01083(31) \\ 0 & 0 & 0 & 0.04871(19) & 0.921076(51) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.934037(50) & 0 & 0 & 0 & 0 \\ 0 & 1.041579(26) & 0.26314(15) & 0 & 0 \\ 0 & 0.023998(14) & 0.81100(20) & 0 & 0 \\ 0 & 0 & 0 & 0.85787(21) & -0.02136(23) \\ 0 & 0 & 0 & -0.2442(14) & 1.072599(58) \end{bmatrix}$	$\begin{bmatrix} 0.924815(38) & 0 & 0 & 0 & 0 \\ 0 & 1.036537(10) & 0.209521(80) & 0 & 0 \\ 0 & 0.032201(15) & 0.931939(75) & 0 & 0 \\ 0 & 0 & 0 & 0.961914(75) & -0.03232(16) \\ 0 & 0 & 0 & -0.18934(94) & 1.010957(23) \end{bmatrix}$	$\begin{bmatrix} 0.990125(79) & 0 & 0 & 0 & 0 \\ 0 & 0.996658(19) & -0.0650(18) & 0 & 0 \\ 0 & 0.004474(23) & 1.14766(31) & 0 & 0 \\ 0 & 0 & 0 & 1.11903(41) & -0.00784(25) \\ 0 & 0 & 0 & 0.04795(19) & 0.943485(71) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.934037(41) & 0 & 0 & 0 & 0 \\ 0 & 1.041567(16) & 0.26312(10) & 0 & 0 \\ 0 & 0.024010(13) & 0.81102(18) & 0 & 0 \\ 0 & 0 & 0 & 0.85791(19) & -0.02137(20) \\ 0 & 0 & 0 & -0.2443(12) & 1.072609(60) \end{bmatrix}$	$\begin{bmatrix} 0.924823(33) & 0 & 0 & 0 & 0 \\ 0 & 1.036519(12) & 0.209451(88) & 0 & 0 \\ 0 & 0.032196(12) & 0.931981(91) & 0 & 0 \\ 0 & 0 & 0 & 0.961924(90) & -0.03231(12) \\ 0 & 0 & 0 & -0.18929(97) & 1.010937(16) \end{bmatrix}$	$\begin{bmatrix} 0.990135(55) & 0 & 0 & 0 & 0 \\ 0 & 0.996654(19) & -0.0650(20) & 0 & 0 \\ 0 & 0.004454(14) & 1.14770(25) & 0 & 0 \\ 0 & 0 & 0 & 1.11900(26) & -0.00782(23) \\ 0 & 0 & 0 & 0.04801(18) & 0.943459(62) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.929398(49) & 0 & 0 & 0 & 0 \\ 0 & 1.034338(24) & 0.22588(13) & 0 & 0 \\ 0 & 0.022622(14) & 0.85006(19) & 0 & 0 \\ 0 & 0 & 0 & 0.88330(19) & -0.02101(20) \\ 0 & 0 & 0 & -0.2122(13) & 1.044361(53) \end{bmatrix}$	$\begin{bmatrix} 0.930868(35) & 0 & 0 & 0 & 0 \\ 0 & 1.029224(14) & 0.171518(92) & 0 & 0 \\ 0 & 0.027324(12) & 0.947586(89) & 0 & 0 \\ 0 & 0 & 0 & 0.968393(84) & -0.02791(12) \\ 0 & 0 & 0 & -0.1574(10) & 1.000978(22) \end{bmatrix}$	$\begin{bmatrix} 1.001581(68) & 0 & 0 & 0 & 0 \\ 0 & 0.996433(26) & -0.0630(15) & 0 & 0 \\ 0 & 0.002048(24) & 1.11417(23) & 0 & 0 \\ 0 & 0 & 0 & 1.09519(20) & -0.00469(23) \\ 0 & 0 & 0 & 0.05234(19) & 0.959512(40) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

C1	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.934610(98) & 0 & 0 & 0 & 0 \\ 0 & 1.05483(11) & 0.34032(19) & 0 & 0 \\ 0 & 0.025639(57) & 0.71306(35) & 0 & 0 \\ 0 & 0 & 0 & 0.77857(32) & -0.02112(56) \\ 0 & 0 & 0 & -0.3195(19) & 1.13469(18) \end{bmatrix}$	$\begin{bmatrix} 0.916110(45) & 0 & 0 & 0 & 0 \\ 0 & 1.049532(54) & 0.27817(15) & 0 & 0 \\ 0 & 0.036895(32) & 0.872352(72) & 0 & 0 \\ 0 & 0 & 0 & 0.917469(78) & -0.03636(40) \\ 0 & 0 & 0 & -0.2518(15) & 1.042501(53) \end{bmatrix}$	$\begin{bmatrix} 0.98020(13) & 0 & 0 & 0 & 0 \\ 0 & 0.997054(92) & -0.0857(41) & 0 & 0 \\ 0 & 0.00530(10) & 1.22085(66) & 0 & 0 \\ 0 & 0 & 0 & 1.17422(42) & -0.01018(69) \\ 0 & 0 & 0 & 0.05411(33) & 0.919761(97) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.93389(13) & 0 & 0 & 0 & 0 \\ 0 & 1.041696(94) & 0.26817(24) & 0 & 0 \\ 0 & 0.023708(87) & 0.80170(59) & 0 & 0 \\ 0 & 0 & 0 & 0.85021(49) & -0.02084(82) \\ 0 & 0 & 0 & -0.2497(30) & 1.07812(26) \end{bmatrix}$	$\begin{bmatrix} 0.925804(40) & 0 & 0 & 0 & 0 \\ 0 & 1.036503(38) & 0.21042(14) & 0 & 0 \\ 0 & 0.031399(31) & 0.925753(77) & 0 & 0 \\ 0 & 0 & 0 & 0.956176(84) & -0.03141(34) \\ 0 & 0 & 0 & -0.1906(12) & 1.013991(47) \end{bmatrix}$	$\begin{bmatrix} 0.99133(12) & 0 & 0 & 0 & 0 \\ 0 & 0.99662(10) & -0.0709(31) & 0 & 0 \\ 0 & 0.00389(12) & 1.15343(90) & 0 & 0 \\ 0 & 0 & 0 & 1.12244(75) & -0.00743(72) \\ 0 & 0 & 0 & 0.05227(45) & 0.94152(30) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.93387(11) & 0 & 0 & 0 & 0 \\ 0 & 1.04177(16) & 0.26798(28) & 0 & 0 \\ 0 & 0.023725(73) & 0.80192(45) & 0 & 0 \\ 0 & 0 & 0 & 0.85053(40) & -0.02093(65) \\ 0 & 0 & 0 & -0.2495(36) & 1.07780(30) \end{bmatrix}$	$\begin{bmatrix} 0.925788(58) & 0 & 0 & 0 & 0 \\ 0 & 1.036513(45) & 0.21045(17) & 0 & 0 \\ 0 & 0.031391(42) & 0.92571(11) & 0 & 0 \\ 0 & 0 & 0 & 0.95612(10) & -0.03141(41) \\ 0 & 0 & 0 & -0.1907(17) & 1.013998(32) \end{bmatrix}$	$\begin{bmatrix} 0.99134(12) & 0 & 0 & 0 & 0 \\ 0 & 0.99655(18) & -0.0705(35) & 0 & 0 \\ 0 & 0.003873(91) & 1.15306(82) & 0 & 0 \\ 0 & 0 & 0 & 1.12198(57) & -0.00735(84) \\ 0 & 0 & 0 & 0.05210(41) & 0.94181(25) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.92860(16) & 0 & 0 & 0 & 0 \\ 0 & 1.03475(18) & 0.23124(46) & 0 & 0 \\ 0 & 0.022490(98) & 0.84241(61) & 0 & 0 \\ 0 & 0 & 0 & 0.87706(51) & -0.0206(12) \\ 0 & 0 & 0 & -0.2177(40) & 1.04871(38) \end{bmatrix}$	$\begin{bmatrix} 0.930993(67) & 0 & 0 & 0 & 0 \\ 0 & 1.029458(37) & 0.17345(15) & 0 & 0 \\ 0 & 0.026969(40) & 0.94303(12) & 0 & 0 \\ 0 & 0 & 0 & 0.96424(12) & -0.02748(38) \\ 0 & 0 & 0 & -0.1595(17) & 1.003027(30) \end{bmatrix}$	$\begin{bmatrix} 1.00256(28) & 0 & 0 & 0 & 0 \\ 0 & 0.99635(17) & -0.0675(44) & 0 & 0 \\ 0 & 0.00174(12) & 1.11895(78) & 0 & 0 \\ 0 & 0 & 0 & 1.09826(58) & -0.0045(13) \\ 0 & 0 & 0 & 0.05580(52) & 0.95753(35) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

C2	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.934749(74) & 0 & 0 & 0 & 0 \\ 0 & 1.05511(14) & 0.34103(36) & 0 & 0 \\ 0 & 0.025626(76) & 0.71195(36) & 0 & 0 \\ 0 & 0 & 0 & 0.77743(34) & -0.02101(56) \\ 0 & 0 & 0 & -0.3200(30) & 1.13482(26) \end{bmatrix}$	$\begin{bmatrix} 0.915914(53) & 0 & 0 & 0 & 0 \\ 0 & 1.049572(68) & 0.27849(16) & 0 & 0 \\ 0 & 0.036973(50) & 0.87235(18) & 0 & 0 \\ 0 & 0 & 0 & 0.91752(23) & -0.03642(65) \\ 0 & 0 & 0 & -0.2522(14) & 1.042539(32) \end{bmatrix}$	$\begin{bmatrix} 0.979850(97) & 0 & 0 & 0 & 0 \\ 0 & 0.99684(15) & -0.0863(56) & 0 & 0 \\ 0 & 0.00534(10) & 1.22272(54) & 0 & 0 \\ 0 & 0 & 0 & 1.17594(81) & -0.01032(86) \\ 0 & 0 & 0 & 0.05414(32) & 0.91967(20) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.933892(61) & 0 & 0 & 0 & 0 \\ 0 & 1.04187(16) & 0.26890(51) & 0 & 0 \\ 0 & 0.023712(93) & 0.79999(53) & 0 & 0 \\ 0 & 0 & 0 & 0.84853(45) & -0.02074(70) \\ 0 & 0 & 0 & -0.2502(40) & 1.07777(27) \end{bmatrix}$	$\begin{bmatrix} 0.925528(63) & 0 & 0 & 0 & 0 \\ 0 & 1.036537(69) & 0.21083(19) & 0 & 0 \\ 0 & 0.031472(51) & 0.92567(15) & 0 & 0 \\ 0 & 0 & 0 & 0.95612(19) & -0.03147(51) \\ 0 & 0 & 0 & -0.1912(19) & 1.013984(34) \end{bmatrix}$	$\begin{bmatrix} 0.991044(94) & 0 & 0 & 0 & 0 \\ 0 & 0.99649(17) & -0.0714(81) & 0 & 0 \\ 0 & 0.00390(12) & 1.15578(75) & 0 & 0 \\ 0 & 0 & 0 & 1.12456(60) & -0.00756(83) \\ 0 & 0 & 0 & 0.05242(38) & 0.94182(23) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.933814(82) & 0 & 0 & 0 & 0 \\ 0 & 1.04174(18) & 0.26888(43) & 0 & 0 \\ 0 & 0.023772(90) & 0.80024(30) & 0 & 0 \\ 0 & 0 & 0 & 0.84878(21) & -0.02079(72) \\ 0 & 0 & 0 & -0.2501(34) & 1.07753(27) \end{bmatrix}$	$\begin{bmatrix} 0.925530(59) & 0 & 0 & 0 & 0 \\ 0 & 1.036515(70) & 0.21082(23) & 0 & 0 \\ 0 & 0.031474(63) & 0.92568(18) & 0 & 0 \\ 0 & 0 & 0 & 0.95614(20) & -0.03148(65) \\ 0 & 0 & 0 & -0.1911(17) & 1.013951(25) \end{bmatrix}$	$\begin{bmatrix} 0.99112(11) & 0 & 0 & 0 & 0 \\ 0 & 0.99661(16) & -0.0714(47) & 0 & 0 \\ 0 & 0.00384(11) & 1.15546(58) & 0 & 0 \\ 0 & 0 & 0 & 1.12426(34) & -0.00752(75) \\ 0 & 0 & 0 & 0.05234(45) & 0.94200(22) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.928455(70) & 0 & 0 & 0 & 0 \\ 0 & 1.03461(20) & 0.23193(56) & 0 & 0 \\ 0 & 0.02256(10) & 0.84040(45) & 0 & 0 \\ 0 & 0 & 0 & 0.87503(36) & -0.02063(68) \\ 0 & 0 & 0 & -0.2182(45) & 1.04805(30) \end{bmatrix}$	$\begin{bmatrix} 0.930697(81) & 0 & 0 & 0 & 0 \\ 0 & 1.029479(85) & 0.17386(24) & 0 & 0 \\ 0 & 0.027040(55) & 0.94298(14) & 0 & 0 \\ 0 & 0 & 0 & 0.96420(18) & -0.02755(60) \\ 0 & 0 & 0 & -0.1601(19) & 1.002961(30) \end{bmatrix}$	$\begin{bmatrix} 1.00241(14) & 0 & 0 & 0 & 0 \\ 0 & 0.99652(27) & -0.0681(70) & 0 & 0 \\ 0 & 0.00167(13) & 1.12159(54) & 0 & 0 \\ 0 & 0 & 0 & 1.10074(49) & -0.0046(10) \\ 0 & 0 & 0 & 0.05600(58) & 0.95807(25) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

M0	$Z(2\text{ GeV})$	$Z(3\text{ GeV})$	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.961750(72) & 0 & 0 & 0 & 0 \\ 0 & 1.060506(49) & 0.361204(89) & 0 & 0 \\ 0 & 0.019370(16) & 0.642806(98) & 0 & 0 \\ 0 & 0 & 0 & 0.722410(99) & -0.01237(23) \\ 0 & 0 & 0 & -0.34500(68) & 1.199657(84) \end{bmatrix}$	$\begin{bmatrix} 0.941413(24) & 0 & 0 & 0 & 0 \\ 0 & 1.046239(13) & 0.271996(27) & 0 & 0 \\ 0 & 0.0253320(92) & 0.803005(45) & 0 & 0 \\ 0 & 0 & 0 & 0.854484(52) & -0.02270(13) \\ 0 & 0 & 0 & -0.24835(25) & 1.085950(17) \end{bmatrix}$	$\begin{bmatrix} 0.978855(60) & 0 & 0 & 0 & 0 \\ 0 & 0.988968(61) & -0.1325(16) & 0 & 0 \\ 0 & 0.001080(20) & 1.24861(17) & 0 & 0 \\ 0 & 0 & 0 & 1.17959(17) & -0.00675(31) \\ 0 & 0 & 0 & 0.08896(13) & 0.906135(64) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.955402(70) & 0 & 0 & 0 & 0 \\ 0 & 1.047301(52) & 0.29012(10) & 0 & 0 \\ 0 & 0.018670(18) & 0.737649(84) & 0 & 0 \\ 0 & 0 & 0 & 0.801279(97) & -0.01380(23) \\ 0 & 0 & 0 & -0.26955(74) & 1.127662(80) \end{bmatrix}$	$\begin{bmatrix} 0.943999(25) & 0 & 0 & 0 & 0 \\ 0 & 1.034519(13) & 0.204764(28) & 0 & 0 \\ 0 & 0.022595(10) & 0.877069(42) & 0 & 0 \\ 0 & 0 & 0 & 0.912116(60) & -0.02136(12) \\ 0 & 0 & 0 & -0.18640(30) & 1.043286(15) \end{bmatrix}$	$\begin{bmatrix} 0.988064(80) & 0 & 0 & 0 & 0 \\ 0 & 0.989786(57) & -0.11170(96) & 0 & 0 \\ 0 & 0.000380(27) & 1.18885(13) & 0 & 0 \\ 0 & 0 & 0 & 1.13663(14) & -0.00502(22) \\ 0 & 0 & 0 & 0.07892(13) & 0.926143(62) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.955422(73) & 0 & 0 & 0 & 0 \\ 0 & 1.047317(50) & 0.290149(85) & 0 & 0 \\ 0 & 0.018667(18) & 0.737607(85) & 0 & 0 \\ 0 & 0 & 0 & 0.80124(10) & -0.01379(24) \\ 0 & 0 & 0 & -0.26957(63) & 1.127716(59) \end{bmatrix}$	$\begin{bmatrix} 0.943993(25) & 0 & 0 & 0 & 0 \\ 0 & 1.034517(14) & 0.204763(35) & 0 & 0 \\ 0 & 0.022595(10) & 0.877063(43) & 0 & 0 \\ 0 & 0 & 0 & 0.912111(57) & -0.02135(14) \\ 0 & 0 & 0 & -0.18640(34) & 1.043288(19) \end{bmatrix}$	$\begin{bmatrix} 0.988037(91) & 0 & 0 & 0 & 0 \\ 0 & 0.989769(41) & -0.1117(13) & 0 & 0 \\ 0 & 0.000383(19) & 1.18891(13) & 0 & 0 \\ 0 & 0 & 0 & 1.13667(13) & -0.00503(17) \\ 0 & 0 & 0 & 0.078942(68) & 0.926099(51) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.944783(72) & 0 & 0 & 0 & 0 \\ 0 & 1.040368(54) & 0.254457(97) & 0 & 0 \\ 0 & 0.018691(22) & 0.785518(75) & 0 & 0 \\ 0 & 0 & 0 & 0.83368(10) & -0.01518(27) \\ 0 & 0 & 0 & -0.23594(69) & 1.088044(58) \end{bmatrix}$	$\begin{bmatrix} 0.942487(25) & 0 & 0 & 0 & 0 \\ 0 & 1.028792(13) & 0.172683(38) & 0 & 0 \\ 0 & 0.020865(12) & 0.907042(38) & 0 & 0 \\ 0 & 0 & 0 & 0.931145(55) & -0.02046(13) \\ 0 & 0 & 0 & -0.15917(36) & 1.023508(14) \end{bmatrix}$	$\begin{bmatrix} 0.997569(64) & 0 & 0 & 0 & 0 \\ 0 & 0.990689(40) & -0.1010(16) & 0 & 0 \\ 0 & -0.00069(23) & 1.15493(13) & 0 & 0 \\ 0 & 0 & 0 & 1.11598(22) & -0.00323(33) \\ 0 & 0 & 0 & 0.075595(93) & 0.941741(47) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

M1	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.95990(16) & 0 & 0 & 0 & 0 \\ 0 & 1.06010(20) & 0.36481(34) & 0 & 0 \\ 0 & 0.019443(65) & 0.63725(36) & 0 & 0 \\ 0 & 0 & 0 & 0.71707(45) & -0.0123(11) \\ 0 & 0 & 0 & -0.3494(40) & 1.20195(27) \end{bmatrix}$	$\begin{bmatrix} 0.941013(75) & 0 & 0 & 0 & 0 \\ 0 & 1.046249(40) & 0.273879(75) & 0 & 0 \\ 0 & 0.025215(24) & 0.79943(12) & 0 & 0 \\ 0 & 0 & 0 & 0.85122(10) & -0.02251(30) \\ 0 & 0 & 0 & -0.25052(97) & 1.087519(57) \end{bmatrix}$	$\begin{bmatrix} 0.98032(15) & 0 & 0 & 0 & 0 \\ 0 & 0.98943(19) & -0.1366(62) & 0 & 0 \\ 0 & 0.000784(95) & 1.25404(79) & 0 & 0 \\ 0 & 0 & 0 & 1.18389(68) & -0.0065(12) \\ 0 & 0 & 0 & 0.09200(43) & 0.90573(26) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.95358(16) & 0 & 0 & 0 & 0 \\ 0 & 1.04720(23) & 0.29438(39) & 0 & 0 \\ 0 & 0.018851(71) & 0.73223(42) & 0 & 0 \\ 0 & 0 & 0 & 0.79623(36) & -0.0139(14) \\ 0 & 0 & 0 & -0.2742(40) & 1.12963(26) \end{bmatrix}$	$\begin{bmatrix} 0.943357(76) & 0 & 0 & 0 & 0 \\ 0 & 1.034611(37) & 0.20673(11) & 0 & 0 \\ 0 & 0.022596(26) & 0.87427(11) & 0 & 0 \\ 0 & 0 & 0 & 0.90958(10) & -0.02131(36) \\ 0 & 0 & 0 & -0.1885(11) & 1.044275(56) \end{bmatrix}$	$\begin{bmatrix} 0.98927(27) & 0 & 0 & 0 & 0 \\ 0 & 0.99005(31) & -0.1157(56) & 0 & 0 \\ 0 & 8.478000(68) & 1.19393(76) & 0 & 0 \\ 0 & 0 & 0 & 1.14070(58) & -0.0047(15) \\ 0 & 0 & 0 & 0.08195(37) & 0.92544(19) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.95365(17) & 0 & 0 & 0 & 0 \\ 0 & 1.04709(22) & 0.29438(43) & 0 & 0 \\ 0 & 0.018821(70) & 0.73221(43) & 0 & 0 \\ 0 & 0 & 0 & 0.79614(40) & -0.0139(16) \\ 0 & 0 & 0 & -0.2742(45) & 1.12955(26) \end{bmatrix}$	$\begin{bmatrix} 0.943423(78) & 0 & 0 & 0 & 0 \\ 0 & 1.034703(46) & 0.20689(10) & 0 & 0 \\ 0 & 0.022604(29) & 0.874158(92) & 0 & 0 \\ 0 & 0 & 0 & 0.909547(98) & -0.02133(39) \\ 0 & 0 & 0 & -0.1886(12) & 1.044343(49) \end{bmatrix}$	$\begin{bmatrix} 0.98927(21) & 0 & 0 & 0 & 0 \\ 0 & 0.99023(20) & -0.1155(52) & 0 & 0 \\ 0 & 0.000128(72) & 1.19381(68) & 0 & 0 \\ 0 & 0 & 0 & 1.14077(49) & -0.0048(14) \\ 0 & 0 & 0 & 0.08188(49) & 0.92556(19) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.94293(17) & 0 & 0 & 0 & 0 \\ 0 & 1.04027(25) & 0.25899(51) & 0 & 0 \\ 0 & 0.018951(86) & 0.78037(54) & 0 & 0 \\ 0 & 0 & 0 & 0.82886(46) & -0.0154(22) \\ 0 & 0 & 0 & -0.2407(47) & 1.08949(27) \end{bmatrix}$	$\begin{bmatrix} 0.941649(79) & 0 & 0 & 0 & 0 \\ 0 & 1.029031(43) & 0.17494(11) & 0 & 0 \\ 0 & 0.020985(30) & 0.90469(10) & 0 & 0 \\ 0 & 0 & 0 & 0.92905(10) & -0.02055(42) \\ 0 & 0 & 0 & -0.1615(13) & 1.024172(53) \end{bmatrix}$	$\begin{bmatrix} 0.99864(19) & 0 & 0 & 0 & 0 \\ 0 & 0.99109(19) & -0.1047(70) & 0 & 0 \\ 0 & -0.0009(11) & 1.15962(75) & 0 & 0 \\ 0 & 0 & 0 & 1.12001(61) & -0.0029(26) \\ 0 & 0 & 0 & 0.07845(63) & 0.94115(24) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

M2	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.96013(20) & 0 & 0 & 0 & 0 \\ 0 & 1.05972(18) & 0.36345(28) & 0 & 0 \\ 0 & 0.01920(14) & 0.63806(52) & 0 & 0 \\ 0 & 0 & 0 & 0.71804(49) & -0.0122(12) \\ 0 & 0 & 0 & -0.3478(38) & 1.20092(69) \end{bmatrix}$	$\begin{bmatrix} 0.941285(56) & 0 & 0 & 0 & 0 \\ 0 & 1.046254(41) & 0.27361(11) & 0 & 0 \\ 0 & 0.025204(28) & 0.79952(21) & 0 & 0 \\ 0 & 0 & 0 & 0.85139(22) & -0.02251(37) \\ 0 & 0 & 0 & -0.2501(13) & 1.087478(85) \end{bmatrix}$	$\begin{bmatrix} 0.98036(21) & 0 & 0 & 0 & 0 \\ 0 & 0.98973(18) & -0.1349(62) & 0 & 0 \\ 0 & 0.00109(19) & 1.25242(79) & 0 & 0 \\ 0 & 0 & 0 & 1.18249(87) & -0.0066(10) \\ 0 & 0 & 0 & 0.09071(98) & 0.90646(73) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.95371(20) & 0 & 0 & 0 & 0 \\ 0 & 1.04680(17) & 0.29301(41) & 0 & 0 \\ 0 & 0.01858(15) & 0.73275(62) & 0 & 0 \\ 0 & 0 & 0 & 0.79691(57) & -0.01381(96) \\ 0 & 0 & 0 & -0.2726(41) & 1.12852(74) \end{bmatrix}$	$\begin{bmatrix} 0.943627(47) & 0 & 0 & 0 & 0 \\ 0 & 1.034656(46) & 0.20661(14) & 0 & 0 \\ 0 & 0.022588(36) & 0.87426(25) & 0 & 0 \\ 0 & 0 & 0 & 0.90972(29) & -0.02132(46) \\ 0 & 0 & 0 & -0.1883(15) & 1.044324(93) \end{bmatrix}$	$\begin{bmatrix} 0.98941(17) & 0 & 0 & 0 & 0 \\ 0 & 0.99041(14) & -0.1140(64) & 0 & 0 \\ 0 & 0.00040(20) & 1.19296(96) & 0 & 0 \\ 0 & 0 & 0 & 1.13987(88) & -0.0049(11) \\ 0 & 0 & 0 & 0.08063(58) & 0.92637(49) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.95372(22) & 0 & 0 & 0 & 0 \\ 0 & 1.04663(24) & 0.29279(28) & 0 & 0 \\ 0 & 0.01855(16) & 0.73289(53) & 0 & 0 \\ 0 & 0 & 0 & 0.79695(48) & -0.01373(96) \\ 0 & 0 & 0 & -0.2724(29) & 1.12845(72) \end{bmatrix}$	$\begin{bmatrix} 0.943632(47) & 0 & 0 & 0 & 0 \\ 0 & 1.034584(47) & 0.20652(10) & 0 & 0 \\ 0 & 0.022584(35) & 0.87428(19) & 0 & 0 \\ 0 & 0 & 0 & 0.90971(23) & -0.02130(43) \\ 0 & 0 & 0 & -0.1881(14) & 1.044246(74) \end{bmatrix}$	$\begin{bmatrix} 0.98942(26) & 0 & 0 & 0 & 0 \\ 0 & 0.99050(24) & -0.1139(31) & 0 & 0 \\ 0 & 0.00043(20) & 1.19274(95) & 0 & 0 \\ 0 & 0 & 0 & 1.13977(77) & -0.0050(10) \\ 0 & 0 & 0 & 0.08057(43) & 0.92636(82) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.94291(22) & 0 & 0 & 0 & 0 \\ 0 & 1.03984(22) & 0.25757(38) & 0 & 0 \\ 0 & 0.01863(19) & 0.78059(61) & 0 & 0 \\ 0 & 0 & 0 & 0.82924(58) & -0.01521(92) \\ 0 & 0 & 0 & -0.2390(31) & 1.08835(81) \end{bmatrix}$	$\begin{bmatrix} 0.941867(44) & 0 & 0 & 0 & 0 \\ 0 & 1.028957(55) & 0.17472(14) & 0 & 0 \\ 0 & 0.020974(52) & 0.90474(29) & 0 & 0 \\ 0 & 0 & 0 & 0.92919(30) & -0.02054(56) \\ 0 & 0 & 0 & -0.1611(13) & 1.024156(91) \end{bmatrix}$	$\begin{bmatrix} 0.99888(27) & 0 & 0 & 0 & 0 \\ 0 & 0.99138(22) & -0.1032(57) & 0 & 0 \\ 0 & -0.0005(24) & 1.1592(11) & 0 & 0 \\ 0 & 0 & 0 & 1.11959(94) & -0.0032(10) \\ 0 & 0 & 0 & 0.07723(41) & 0.94209(58) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

M3	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.96099(38) & 0 & 0 & 0 & 0 \\ 0 & 1.06041(18) & 0.36406(37) & 0 & 0 \\ 0 & 0.01939(13) & 0.63821(67) & 0 & 0 \\ 0 & 0 & 0 & 0.71814(77) & -0.0120(14) \\ 0 & 0 & 0 & -0.3488(62) & 1.20295(64) \end{bmatrix}$	$\begin{bmatrix} 0.94124(16) & 0 & 0 & 0 & 0 \\ 0 & 1.046237(56) & 0.27368(25) & 0 & 0 \\ 0 & 0.025135(32) & 0.79934(41) & 0 & 0 \\ 0 & 0 & 0 & 0.85115(39) & -0.02241(25) \\ 0 & 0 & 0 & -0.2503(27) & 1.08765(12) \end{bmatrix}$	$\begin{bmatrix} 0.97945(60) & 0 & 0 & 0 & 0 \\ 0 & 0.98911(18) & -0.1353(81) & 0 & 0 \\ 0 & 0.00080(18) & 1.2520(15) & 0 & 0 \\ 0 & 0 & 0 & 1.1819(12) & -0.0067(13) \\ 0 & 0 & 0 & 0.09102(96) & 0.90506(62) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.95453(41) & 0 & 0 & 0 & 0 \\ 0 & 1.04732(19) & 0.29325(37) & 0 & 0 \\ 0 & 0.01873(16) & 0.73327(74) & 0 & 0 \\ 0 & 0 & 0 & 0.79732(85) & -0.0135(16) \\ 0 & 0 & 0 & -0.2734(47) & 1.13050(49) \end{bmatrix}$	$\begin{bmatrix} 0.94359(17) & 0 & 0 & 0 & 0 \\ 0 & 1.034606(57) & 0.20658(31) & 0 & 0 \\ 0 & 0.022497(37) & 0.87410(42) & 0 & 0 \\ 0 & 0 & 0 & 0.90945(40) & -0.02121(30) \\ 0 & 0 & 0 & -0.1883(39) & 1.044420(95) \end{bmatrix}$	$\begin{bmatrix} 0.98854(45) & 0 & 0 & 0 & 0 \\ 0 & 0.98989(15) & -0.1141(64) & 0 & 0 \\ 0 & 0.00016(19) & 1.1919(10) & 0 & 0 \\ 0 & 0 & 0 & 1.1388(13) & -0.0051(16) \\ 0 & 0 & 0 & 0.08086(68) & 0.92482(44) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.95469(40) & 0 & 0 & 0 & 0 \\ 0 & 1.04725(23) & 0.29326(40) & 0 & 0 \\ 0 & 0.01873(13) & 0.73312(74) & 0 & 0 \\ 0 & 0 & 0 & 0.79723(81) & -0.0135(15) \\ 0 & 0 & 0 & -0.2731(56) & 1.13042(67) \end{bmatrix}$	$\begin{bmatrix} 0.94361(16) & 0 & 0 & 0 & 0 \\ 0 & 1.034584(56) & 0.20652(25) & 0 & 0 \\ 0 & 0.022497(35) & 0.87416(43) & 0 & 0 \\ 0 & 0 & 0 & 0.90951(41) & -0.02119(30) \\ 0 & 0 & 0 & -0.1883(27) & 1.04447(10) \end{bmatrix}$	$\begin{bmatrix} 0.98840(48) & 0 & 0 & 0 & 0 \\ 0 & 0.98994(30) & -0.1142(65) & 0 & 0 \\ 0 & 0.00014(13) & 1.1923(14) & 0 & 0 \\ 0 & 0 & 0 & 1.1390(13) & -0.0051(13) \\ 0 & 0 & 0 & 0.08059(75) & 0.92492(45) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.94385(43) & 0 & 0 & 0 & 0 \\ 0 & 1.04032(23) & 0.25761(31) & 0 & 0 \\ 0 & 0.01877(15) & 0.78136(86) & 0 & 0 \\ 0 & 0 & 0 & 0.82991(95) & -0.0148(19) \\ 0 & 0 & 0 & -0.2395(56) & 1.09034(53) \end{bmatrix}$	$\begin{bmatrix} 0.94185(17) & 0 & 0 & 0 & 0 \\ 0 & 1.028928(58) & 0.17462(32) & 0 & 0 \\ 0 & 0.020855(49) & 0.90460(42) & 0 & 0 \\ 0 & 0 & 0 & 0.92892(40) & -0.02042(46) \\ 0 & 0 & 0 & -0.1612(30) & 1.024310(85) \end{bmatrix}$	$\begin{bmatrix} 0.99787(53) & 0 & 0 & 0 & 0 \\ 0 & 0.99090(24) & -0.1032(52) & 0 & 0 \\ 0 & -0.0008(22) & 1.1580(13) & 0 & 0 \\ 0 & 0 & 0 & 1.1182(12) & -0.0034(22) \\ 0 & 0 & 0 & 0.07708(78) & 0.94048(32) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

F1M	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.97565(20) & 0 & 0 & 0 & 0 \\ 0 & 1.06534(10) & 0.37461(21) & 0 & 0 \\ 0 & 0.017425(61) & 0.61285(45) & 0 & 0 \\ 0 & 0 & 0 & 0.70000(52) & -0.00920(77) \\ 0 & 0 & 0 & -0.3617(24) & 1.23496(22) \end{bmatrix}$	$\begin{bmatrix} 0.952341(63) & 0 & 0 & 0 & 0 \\ 0 & 1.047148(18) & 0.278053(95) & 0 & 0 \\ 0 & 0.021630(17) & 0.77029(15) & 0 & 0 \\ 0 & 0 & 0 & 0.82722(16) & -0.01794(17) \\ 0 & 0 & 0 & -0.25552(92) & 1.109873(27) \end{bmatrix}$	$\begin{bmatrix} 0.97610(26) & 0 & 0 & 0 & 0 \\ 0 & 0.985347(97) & -0.1486(37) & 0 & 0 \\ 0 & -0.00025(83) & 1.25705(66) & 0 & 0 \\ 0 & 0 & 0 & 1.17877(87) & -0.00574(73) \\ 0 & 0 & 0 & 0.09980(33) & 0.89945(16) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.96632(21) & 0 & 0 & 0 & 0 \\ 0 & 1.05160(10) & 0.30496(23) & 0 & 0 \\ 0 & 0.017055(65) & 0.70722(48) & 0 & 0 \\ 0 & 0 & 0 & 0.77923(55) & -0.01113(79) \\ 0 & 0 & 0 & -0.2841(25) & 1.15574(21) \end{bmatrix}$	$\begin{bmatrix} 0.951777(63) & 0 & 0 & 0 & 0 \\ 0 & 1.035454(21) & 0.21053(11) & 0 & 0 \\ 0 & 0.019765(18) & 0.85098(16) & 0 & 0 \\ 0 & 0 & 0 & 0.89086(17) & -0.01779(19) \\ 0 & 0 & 0 & -0.1918(10) & 1.060326(30) \end{bmatrix}$	$\begin{bmatrix} 0.98494(21) & 0 & 0 & 0 & 0 \\ 0 & 0.986713(97) & -0.1277(33) & 0 & 0 \\ 0 & -0.00072(92) & 1.2035(11) & 0 & 0 \\ 0 & 0 & 0 & 1.14165(75) & -0.00438(88) \\ 0 & 0 & 0 & 0.08866(31) & 0.91829(17) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.96631(20) & 0 & 0 & 0 & 0 \\ 0 & 1.05160(10) & 0.30495(25) & 0 & 0 \\ 0 & 0.017071(65) & 0.70722(54) & 0 & 0 \\ 0 & 0 & 0 & 0.77923(60) & -0.01114(73) \\ 0 & 0 & 0 & -0.2841(27) & 1.15581(21) \end{bmatrix}$	$\begin{bmatrix} 0.951773(74) & 0 & 0 & 0 & 0 \\ 0 & 1.035449(15) & 0.21051(11) & 0 & 0 \\ 0 & 0.019767(20) & 0.85101(16) & 0 & 0 \\ 0 & 0 & 0 & 0.89088(17) & -0.01779(21) \\ 0 & 0 & 0 & -0.1918(11) & 1.060321(34) \end{bmatrix}$	$\begin{bmatrix} 0.98495(17) & 0 & 0 & 0 & 0 \\ 0 & 0.98671(10) & -0.1278(28) & 0 & 0 \\ 0 & -0.00074(80) & 1.20363(66) & 0 & 0 \\ 0 & 0 & 0 & 1.14168(93) & -0.00438(73) \\ 0 & 0 & 0 & 0.08869(42) & 0.91823(13) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.95300(21) & 0 & 0 & 0 & 0 \\ 0 & 1.04437(11) & 0.27010(24) & 0 & 0 \\ 0 & 0.017426(68) & 0.75626(54) & 0 & 0 \\ 0 & 0 & 0 & 0.81236(60) & -0.01298(76) \\ 0 & 0 & 0 & -0.2497(27) & 1.11124(21) \end{bmatrix}$	$\begin{bmatrix} 0.947289(75) & 0 & 0 & 0 & 0 \\ 0 & 1.029865(18) & 0.17921(13) & 0 & 0 \\ 0 & 0.018876(21) & 0.88598(17) & 0 & 0 \\ 0 & 0 & 0 & 0.91370(17) & -0.01790(22) \\ 0 & 0 & 0 & -0.1648(12) & 1.035958(35) \end{bmatrix}$	$\begin{bmatrix} 0.99400(15) & 0 & 0 & 0 & 0 \\ 0 & 0.98804(12) & -0.1159(49) & 0 & 0 \\ 0 & -0.00148(87) & 1.1720(10) & 0 & 0 \\ 0 & 0 & 0 & 1.12382(95) & -0.00298(68) \\ 0 & 0 & 0 & 0.08395(41) & 0.93322(18) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$

F1S	Z(2 GeV)	Z(3 GeV)	$\sigma_{npt}(2,3)$	$\sigma_{pt}^{NLO}(2,3)$
(0, 0)	$\begin{bmatrix} 0.97788(17) & 0 & 0 & 0 & 0 \\ 0 & 1.06649(12) & 0.37804(24) & 0 & 0 \\ 0 & 0.017236(44) & 0.60715(43) & 0 & 0 \\ 0 & 0 & 0 & 0.69594(47) & -0.00877(73) \\ 0 & 0 & 0 & -0.3658(28) & 1.24185(27) \end{bmatrix}$	$\begin{bmatrix} 0.954279(37) & 0 & 0 & 0 & 0 \\ 0 & 1.047644(15) & 0.280667(44) & 0 & 0 \\ 0 & 0.0211297(66) & 0.763350(71) & 0 & 0 \\ 0 & 0 & 0 & 0.821682(80) & -0.017221(85) \\ 0 & 0 & 0 & -0.25836(48) & 1.115287(29) \end{bmatrix}$	$\begin{bmatrix} 0.97586(16) & 0 & 0 & 0 & 0 \\ 0 & 0.98476(13) & -0.1508(54) & 0 & 0 \\ 0 & -0.00051(60) & 1.25757(71) & 0 & 0 \\ 0 & 0 & 0 & 1.17775(96) & -0.00554(71) \\ 0 & 0 & 0 & 0.10123(44) & 0.89880(16) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(0, 1)	$\begin{bmatrix} 0.96796(17) & 0 & 0 & 0 & 0 \\ 0 & 1.05257(14) & 0.30865(25) & 0 & 0 \\ 0 & 0.016930(47) & 0.70138(51) & 0 & 0 \\ 0 & 0 & 0 & 0.77519(57) & -0.01079(78) \\ 0 & 0 & 0 & -0.2877(28) & 1.16117(26) \end{bmatrix}$	$\begin{bmatrix} 0.953116(37) & 0 & 0 & 0 & 0 \\ 0 & 1.035877(14) & 0.212934(53) & 0 & 0 \\ 0 & 0.0193980(85) & 0.845251(79) & 0 & 0 \\ 0 & 0 & 0 & 0.886424(87) & -0.017253(94) \\ 0 & 0 & 0 & -0.19403(58) & 1.064191(30) \end{bmatrix}$	$\begin{bmatrix} 0.98465(17) & 0 & 0 & 0 & 0 \\ 0 & 0.98623(11) & -0.1304(43) & 0 & 0 \\ 0 & -0.00096(68) & 1.20554(85) & 0 & 0 \\ 0 & 0 & 0 & 1.14191(85) & -0.00424(69) \\ 0 & 0 & 0 & 0.09019(26) & 0.91731(22) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 0)	$\begin{bmatrix} 0.96794(19) & 0 & 0 & 0 & 0 \\ 0 & 1.05256(15) & 0.30866(30) & 0 & 0 \\ 0 & 0.016925(39) & 0.70132(51) & 0 & 0 \\ 0 & 0 & 0 & 0.77515(55) & -0.01079(87) \\ 0 & 0 & 0 & -0.2877(30) & 1.16111(26) \end{bmatrix}$	$\begin{bmatrix} 0.953110(39) & 0 & 0 & 0 & 0 \\ 0 & 1.035877(14) & 0.212953(49) & 0 & 0 \\ 0 & 0.0194004(80) & 0.845237(74) & 0 & 0 \\ 0 & 0 & 0 & 0.886415(82) & -0.01725(10) \\ 0 & 0 & 0 & -0.19404(55) & 1.064181(31) \end{bmatrix}$	$\begin{bmatrix} 0.98467(17) & 0 & 0 & 0 & 0 \\ 0 & 0.98624(12) & -0.1304(33) & 0 & 0 \\ 0 & -0.00095(46) & 1.20561(76) & 0 & 0 \\ 0 & 0 & 0 & 1.14195(80) & -0.00424(70) \\ 0 & 0 & 0 & 0.09019(37) & 0.91735(29) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$
(1, 1)	$\begin{bmatrix} 0.95412(18) & 0 & 0 & 0 & 0 \\ 0 & 1.04526(15) & 0.27402(29) & 0 & 0 \\ 0 & 0.017340(41) & 0.75047(55) & 0 & 0 \\ 0 & 0 & 0 & 0.80830(62) & -0.01271(90) \\ 0 & 0 & 0 & -0.2532(30) & 1.11564(26) \end{bmatrix}$	$\begin{bmatrix} 0.948062(40) & 0 & 0 & 0 & 0 \\ 0 & 1.030278(14) & 0.181608(53) & 0 & 0 \\ 0 & 0.0186356(97) & 0.881173(79) & 0 & 0 \\ 0 & 0 & 0 & 0.909911(87) & -0.01753(11) \\ 0 & 0 & 0 & -0.16693(60) & 1.038811(35) \end{bmatrix}$	$\begin{bmatrix} 0.99364(20) & 0 & 0 & 0 & 0 \\ 0 & 0.98762(16) & -0.1186(49) & 0 & 0 \\ 0 & -0.00165(51) & 1.1747(10) & 0 & 0 \\ 0 & 0 & 0 & 1.12479(97) & -0.00289(82) \\ 0 & 0 & 0 & 0.08546(41) & 0.93210(27) \end{bmatrix}$	$\begin{bmatrix} 1.03340 & 0 & 0 & 0 & 0 \\ 0 & 1.02353 & 0.14555 & 0 & 0 \\ 0 & 0.00484 & 0.80334 & 0 & 0 \\ 0 & 0 & 0 & 0.88059 & -0.00315 \\ 0 & 0 & 0 & -0.43335 & 1.12175 \end{bmatrix}$