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pythia.eAu.10x100.1Mevents.RadCor=0.Q2-0.1.txt ! output file name
11          ! lepton beam type
100, 10     ! proton and electron beam energy
1000000,100 ! Number of events
1e-09, 1.00 ! xmin and xmax
1e-09,1.00  ! ymin and ymax
0.100,20000 ! Q2min and Q2max
F2PY,1998   ! F2-Model, R-Parametrisation
0           ! switch for rad corrections; 0:no, 1:yes, 2:gen.lookup
table
1           ! Pythia-Model = 0 standard GVMd generation in Pythia-x
and Q2; = 1 GVMd model with generation in y and Q2 as for radgen
1,1        ! A-Tar and Z-Tar
197,79     ! nuclear pdf parameter1: nucleon mass number A, charge
number Z
201        ! nuclear pdf parameter2: correction order x*100+y x=
1:L0, 2:NLO y:error set
! PMAS(4,1)=1.27 ! charm mass
MSEL=2
MSTP(14)=30
MSTP(15)=0
MSTP(16)=1
MSTP(17)=4 ! MSTP 17=6 is the R-rho measured as by hermes, =4 Default
MSTP(18)=3
MSTP(19)=1 ! Hermes MSTP-19=1 different Q2 suppression, default = 4
MSTP(20)=0 ! Hermes MSTP(20)=0 , default MSTP(20)=3
MSTP(32)=8
MSTP(38)=4
MSTP(51)=10050 ! if pdflib is linked than non pythia-pdfs are available,
like MSTP(51)=4046
MSTP(52)=2 ! ---> pdflib used MSTP 52=2
MSTP(53)=3
MSTP(54)=1
MSTP(55)=5
MSTP(56)=1
MSTP(57)=1
MSTP(58)=5
MSTP(59)=1
MSTP(60)=7
MSTP(61)=2
MSTP(71)=1
MSTP(81)=0
MSTP(82)=1
MSTP(91)=1
MSTP(92)=3 ! hermes MSTP(92)=4
MSTP(93)=1

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MSTP(101)=3
MSTP(102)=1
MSTP(111)=1
MSTP(121)=0
! ----- Now all the PARPs -----
PARP(13)=1
PARP(18)=0.40 ! hermes PARP(18)=0.17
PARP(81)=1.9
PARP(89)=1800
PARP(90)=0.16
PARP(91)=0.40
PARP(93)=5.
PARP(99)=0.40
PARP(100)=5
PARP(102)=0.28
PARP(103)=1.0
PARP(104)=0.8
PARP(111)=2.
PARP(161)=3.00
PARP(162)=24.6
PARP(163)=18.8
PARP(164)=11.5
PARP(165)=0.47679
PARP(166)=0.67597 ! PARP165/166 are linked to MSTP17 as R_rho of HERMES is used
! PARP(166)=0.5
! ----- Now come all the switches for Jetset -----
PARJ(1)=0.100
PARJ(2)=0.300
PARJ(11)=0.5
PARJ(12)=0.6
PARJ(21)= 0.40
PARJ(32)=1.0
PARJ(33)= 0.80
PARJ(41)= 0.30
PARJ(42)= 0.58
PARJ(45)= 0.5
!-----
MSTJ(1)=1
MSTJ(12)=1
MSTJ(45)=5
MSTU(112)=5
MSTU(113)=5
MSTU(114)=5
! ----- Now all the CKINs for pythia -----
CKIN(1)=1.

CKIN(2)=-1.
CKIN(3)=0.
CKIN(4)=-1.
CKIN(5)=1.00
CKIN(6)=1.00
CKIN(7)=-10.
CKIN(8)=10.
CKIN(9)=-40.
CKIN(10)=40.
CKIN(11)=-40.
CKIN(12)=40.
CKIN(13)=-40.
CKIN(14)=40.
CKIN(15)=-40.
CKIN(16)=40.
CKIN(17)=-1.
CKIN(18)=1.
CKIN(19)=-1.
CKIN(20)=1.
CKIN(21)=0.
CKIN(22)=1.
CKIN(23)=0.
CKIN(24)=1.
CKIN(25)=-1.
CKIN(26)=1.
CKIN(27)=-1.
CKIN(28)=1.
CKIN(31)=2.
CKIN(32)=-1.
CKIN(35)=0.
CKIN(36)=-1
CKIN(37)=0.
CKIN(38)=-1.
CKIN(39)=4.
CKIN(40)=-1.
CKIN(65)=1.e-09 ! Min for Q^2
CKIN(66)=-1. ! Max for Q^2
CKIN(67)=0.
CKIN(68)=-1.
CKIN(77)=2.0
CKIN(78)=-1.