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Memo CP-C/208

DATE: February 16, 1995
TO: Distribution
FROM: V.McLane
SUBJECT: Dictionary Additions

The NNDC is planning to compile data from relativistic heavy-ion collisions and electron reactions. For this purpose, we need the following updates to the EXFOR dictionaries. We will write LEXFOR entries for this data when we have had a chance to look at more data sets.

Please add to Dictionary 24 (Data headings)

MSS-TK	Transverse mass - rest mass of outgoing ejectile	E	E/2
RAP	Rapidity	E	NO
	function of outgoing energy+mom(parallel)/energy-mom(parellel)		
RAP-ERR	Rapidity uncertainty	F	NO
RAP-MAX	Upper limit of rapidity	E	NO
RAP-MIN	Lower limit of rapidity	E	NO
RAP-PS	Pseudo rapidity	E	NO
	function of outgoing mom+mom(parallel)/mom-mom(parellel)		

Please add to Dictionary 25 (Data units)

A*GEV/C	Atomic number x GeV/velocity of light	E/C
1/GEV ²	1/GeV-squared	1/E ²
GEV/C ²	GeV/velocity of light-squared	E/C ²
MB*C ³ /GEV ²	mb x velocity of light-cubed/GeV-squared	BC/M

Please add to Dictionary 31 (Branch)

CEN Central
PER Peripheral

Please add to Dictionary 32 (Parameter)

ISP Inverse slope parameter
DMT Differential with respect to secondary particle transverse mass
DR Differential with respect to rapidity

Please add to Dictionary ⁴33 (Modifier)

2MT times $2\pi \times$ transverse secondary particle mass
2PT times $2\pi \times$ transverse secondary particle momentum

Please add to Dictionary 36 (Quantities)

,DMT/DR,,2MT	DE	Double diff. cross sect. $d/dm(\text{trns})/dR \times 1/(2\pi \times \text{transv.mass})$ Double Diff. cross section $d/d(\text{tranverse mass})/D(\text{rapidity}) \times 1/(2\pi \times \text{transverse mass})$
CEN,SPC/DMT/DR,,2MT	SPC	Double diff.spectr. $d/dm(\text{trns})/dR \times 1/(2\pi \times \text{trns.mass})$, central Double Diff. spectrum $d/d(\text{transverse mass})/D(\text{rapidity}) \times 1/(2\pi \times \text{transverse mass})$, central
CEN,SPC/DR	SPC	Spectrum as a fn. of rapidity, central
PAR/CEN,ISP	DE*	Inverse slope as a fn. of rapidity, central
PAR/PER,ISP	DE*	Inverse slope as a fn. of rapidity, peripheral
PER,SPC/DMT/DR,,2MT	SPC	Double diff.spectr. $d/dm(\text{trns})/dR \times 1/(2\pi \times \text{trns.mass})$, peripheral Double diff. spectrum $d/d(\text{tranverse mass})/D(\text{rapidity}) \times 1/(2\pi \times \text{transverse mass})$, peripheral
PER,SPC/DR	SPC	Spectrum as a fn. of rapidity, peripheral

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