STANDARD DEFINITIONS FOR INPUT PARAMETERS

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In this note, variables in red refers to signals in the Profile Database.

The profile database defines three ion species as follow:

Name	Charge	Mass	Note:
NM1	PGASZ	PGASA	Main plasma thermal ion. For DT mix, use average charge and mass.(1)
NM2	BGASZ	BGASA	Beam thermal ions (if different from NM1)
NIMP	PIMPZ	PIMPA	Main plasma thermal impurity.

(1) For DHe3 plasma from JET with D the beam species: He3 is put in NM1, D in NM2 and NIMP contains the non-Helium impurity density, PIMPZ,PIMPA are averages for the non-Helium impurities.

TFTR conventions:

Name	Charge	Mass	Note:
NM1*	1	1	Hydrogen
NM2*	1	2	Deuterium
NM3*	1	3	Tritium
NM4*	2	4	Helium(*)
NIMP	PIMPZ	PIMPA	Main plasma thermal impurity.

(*) He4 is assumed.

TFTR convention can be translated into standard convention by using:

NM2 = 0

NM1 = NM1* + NM2* + NM3* + NM4*

PGASA and PGASZ should be REAL and correspond to an average charge and mass.

If PGASA or PGASZ are integer they ought to be re-computed as:

PGASZ =

PGASA =

(<..> indicate volume average)

Missing data:

The following conventions should be followed:

* If any of the required signal is missing, it should be replaced by zero.

* The following quantities, when missing, can be replaced as follow:

ZEFFR = ZEFF

NM1 = NE

NIMP = NE

PIMPZ = 6

PIMPA = 12