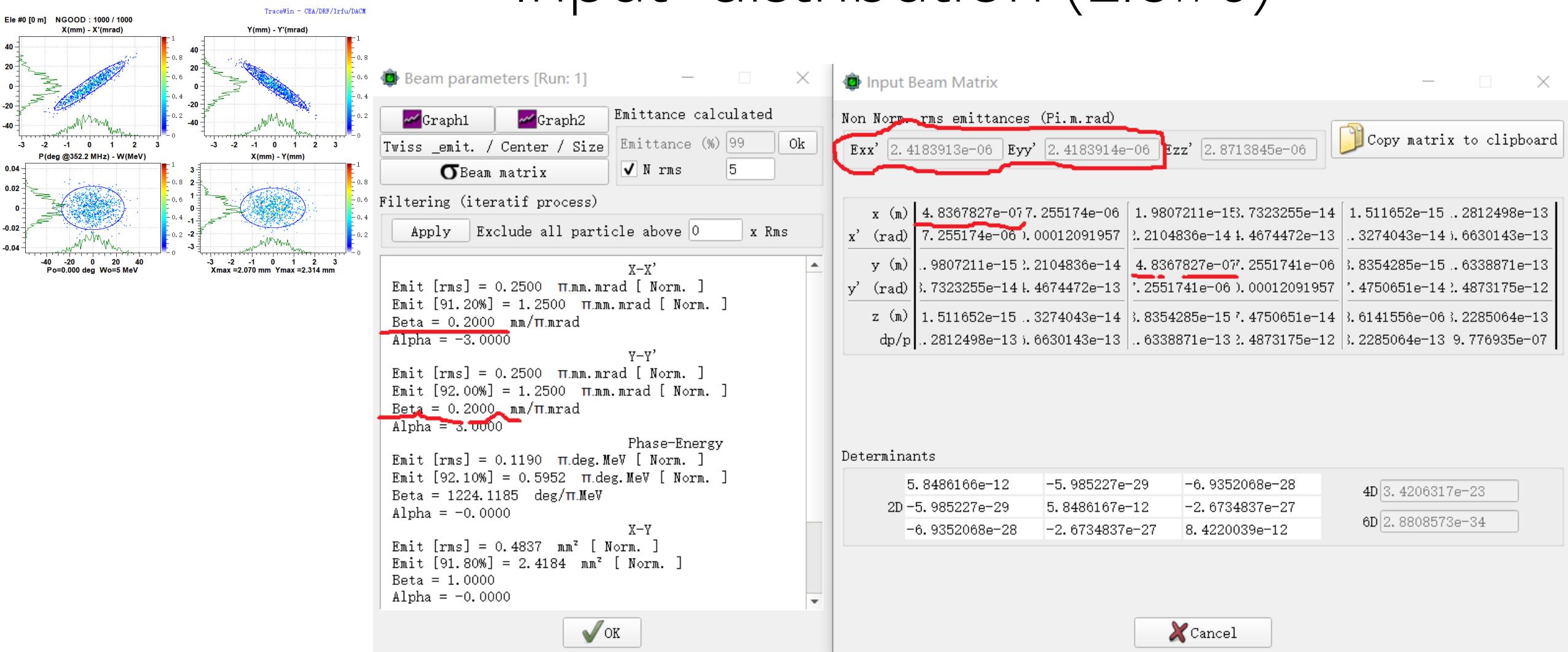
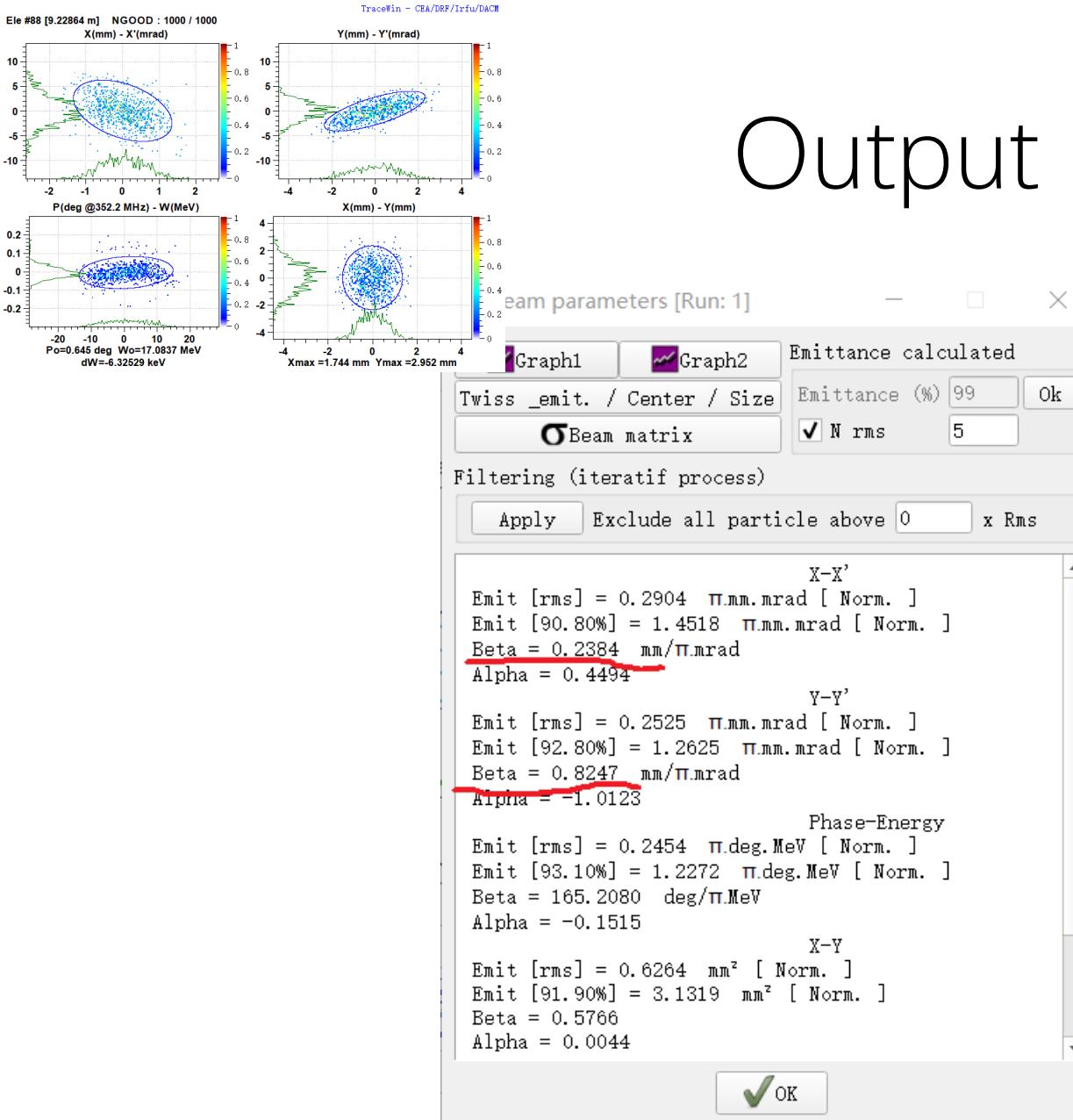


Input distribution (Ele#0)





Input Beam Matrix

Non Norm. rms emittances (Pi.m.rad)

Exx'	1.5150145e-06	Eyy'	1.3174063e-06	Ezz'	3.1127226e-06	<input type="button" value="Copy matrix to clipboard"/>
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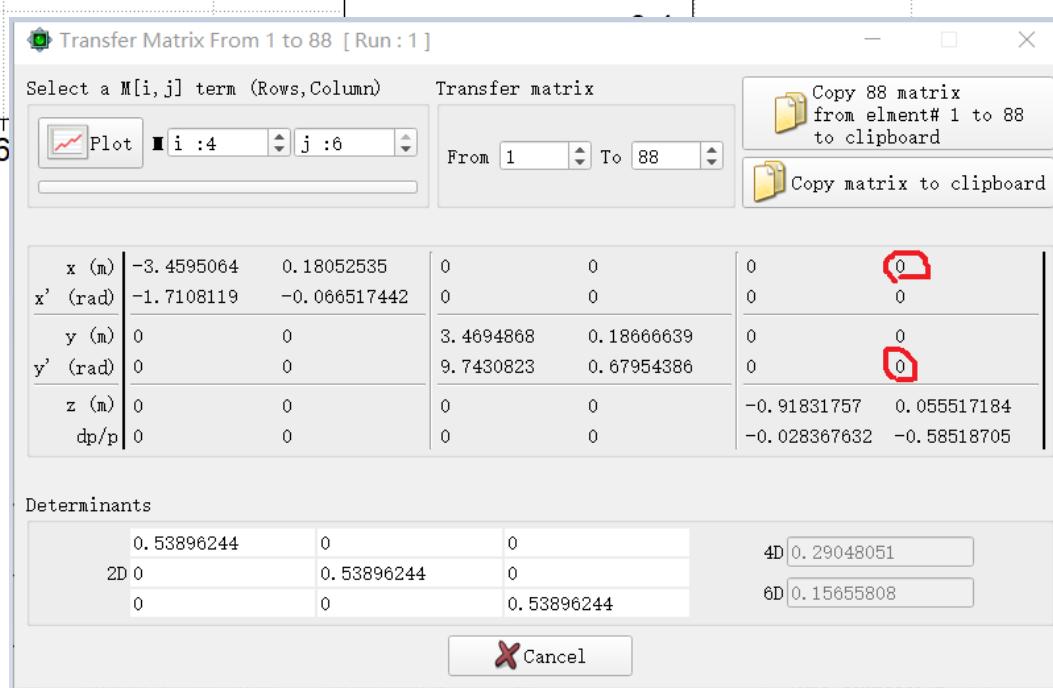
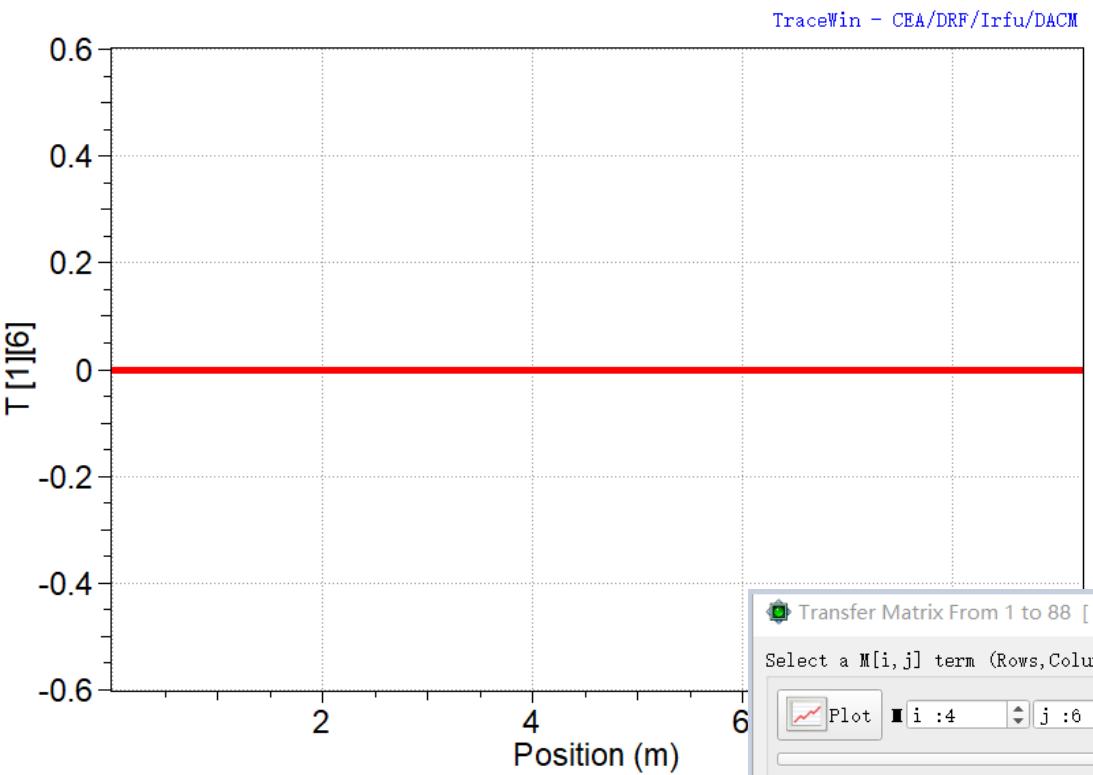
x (m)	3.6116496e-07	-6.8087368e-07	-2.7777025e-09	-3.1232744e-08	2.4574271e-08	1.3778765e-09
x' (rad)	-6.8087368e-07	7.6387754e-06	-8.628349e-08	-2.0040324e-07	3.644241e-07	2.109393e-08
y (m)	-2.7777025e-09	-8.628349e-08	1.0864055e-06	1.3336094e-06	-5.2007827e-08	2.6126793e-08
y' (rad)	-3.1232744e-08	-2.0040324e-07	1.3336094e-06	3.2345871e-06	-7.3429983e-08	-4.4546318e-08
z (m)	2.4574271e-08	3.644241e-07	-5.2007827e-08	-7.3429983e-08	8.0318043e-06	-4.8904542e-07
dp/p	1.3778765e-09	2.109393e-08	2.6126793e-08	-4.4546318e-08	-4.8904542e-07	1.3263639e-06

Determinants

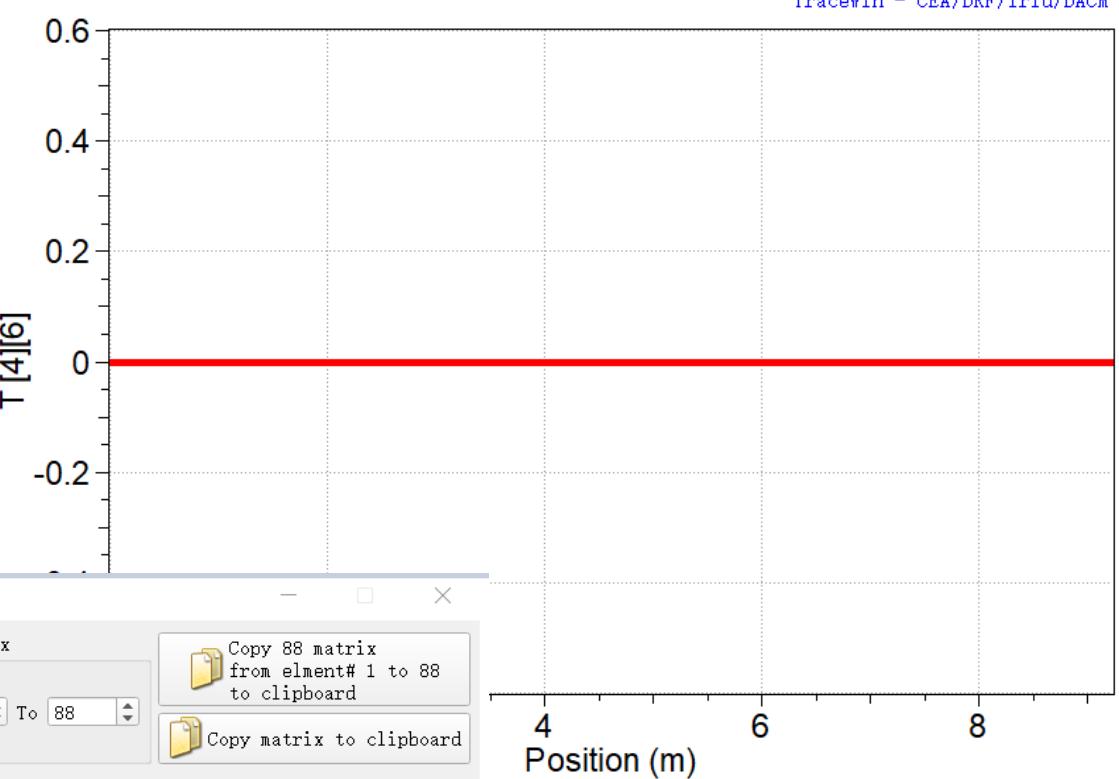
2.2952691e-12	-2.1382096e-15	1.6236527e-17	4D 3.9648527e-24
2D -2.1382096e-15	1.7355593e-12	4.2352472e-15	6D 4.0991135e-35
1.6236527e-17	4.2352472e-15	1.041393e-11	

Cancel

$$T_{16} = 0$$



$$T_{46} = 0$$



$$\beta_{xx'} = \frac{\sigma_{11} - \sigma_{66} \cdot T_{16}^2}{\varepsilon_{xx'}} \text{ and } \beta_{yy'} = \frac{\sigma_{33} - \sigma_{66} \cdot T_{46}^2}{\varepsilon_{yy'}}$$

Calculated $\beta_{xx'} = \frac{3.6116496e - 07}{2.4183913e - 06} = 0.14934$, $\beta_{yy'} = \frac{1.0864055e - 06}{2.4183913e - 06} = 0.44923$,

Envelope $\beta_{xx'} = 0.27688$, $\beta_{yy'} = 0.83287$,

Phase space $\beta_{xx'} = 0.2384$, $\beta_{yy'} = 0.8247$,