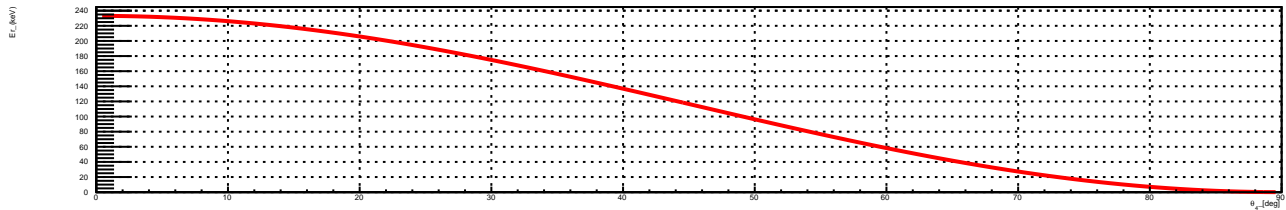
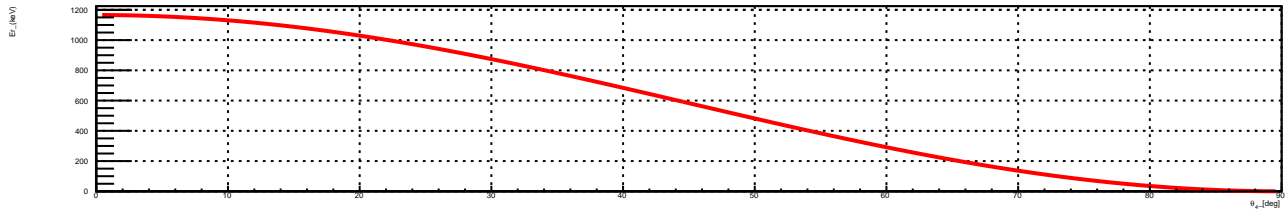


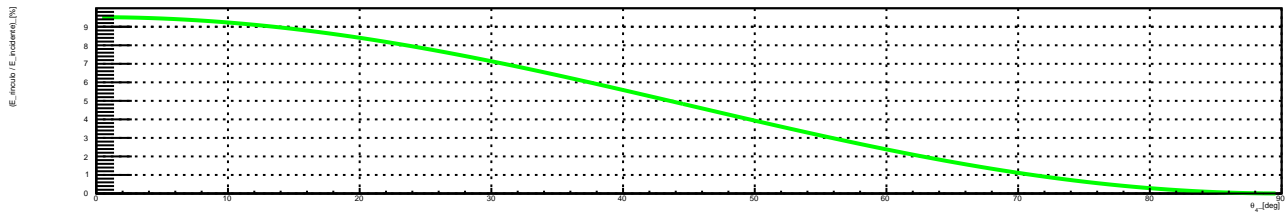
En= 2,45 MeV (D+D->3He+n) - Energia di rinculo Argon VS angolo di scattering Argon

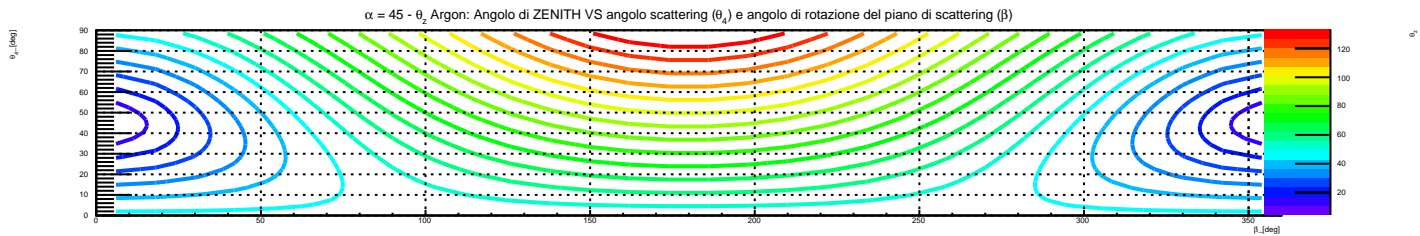
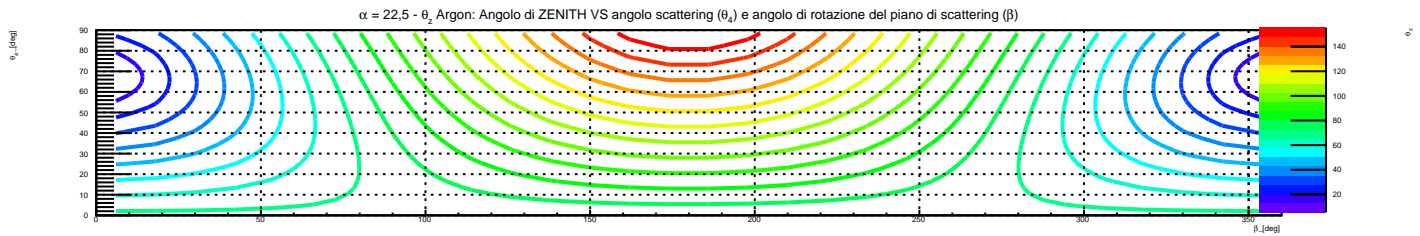
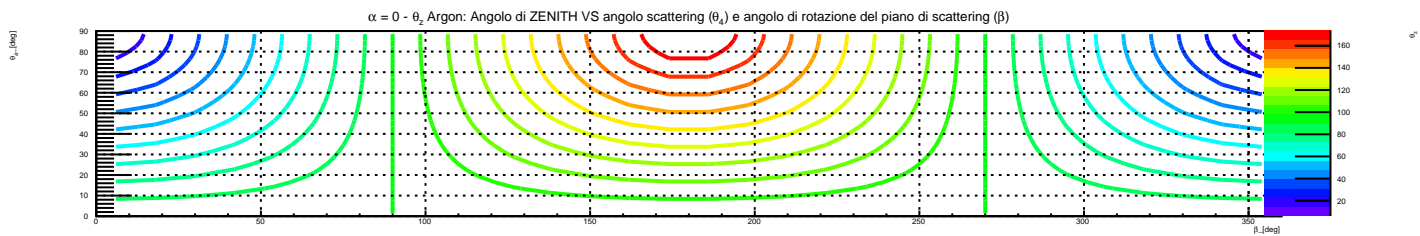


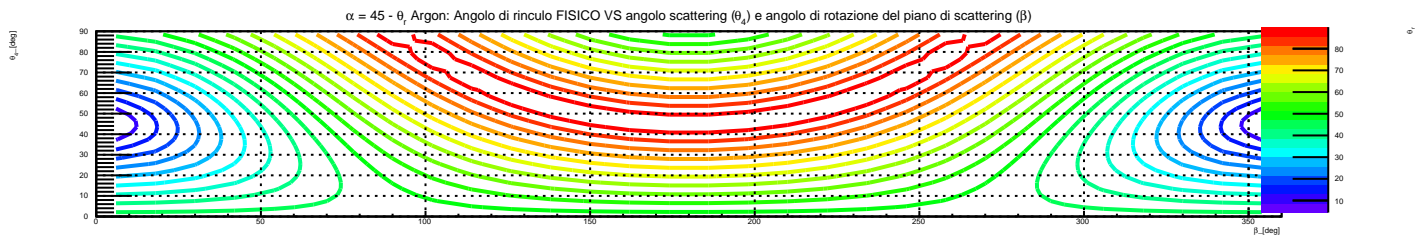
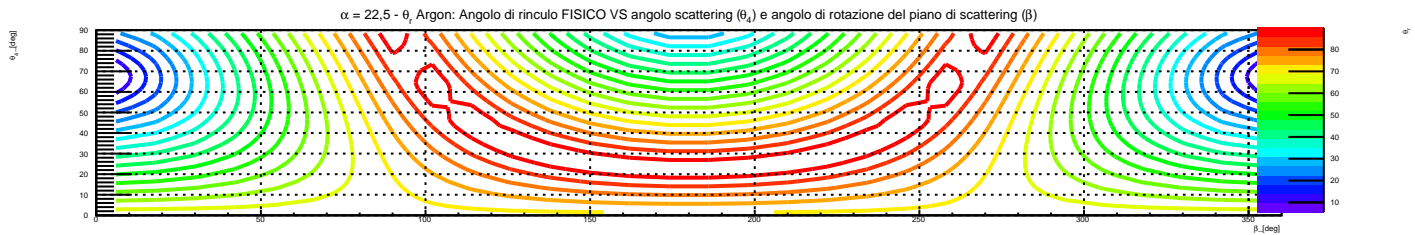
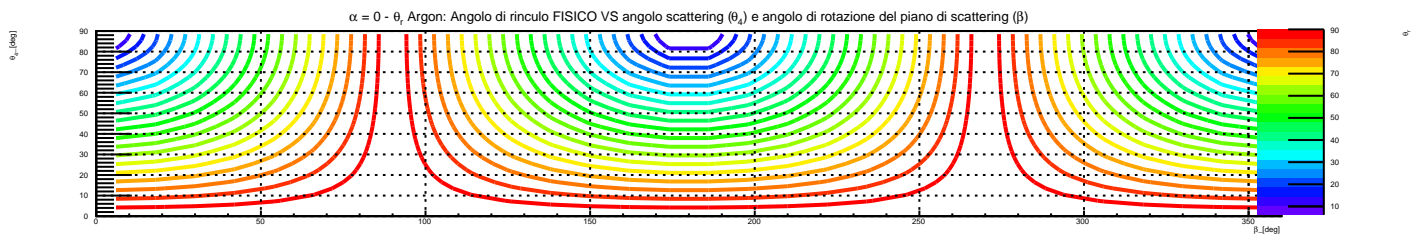
En= 14,1 MeV (D+T->4He+n) - Energia di rinculo Argon VS angolo di scattering Argon



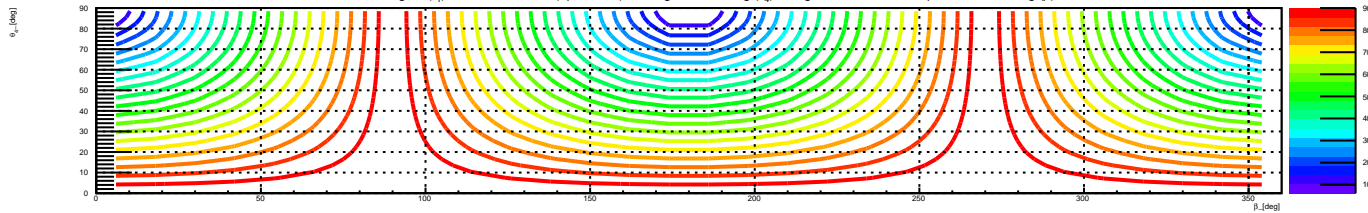
Frazione % Er/En VS angolo di scattering Argon



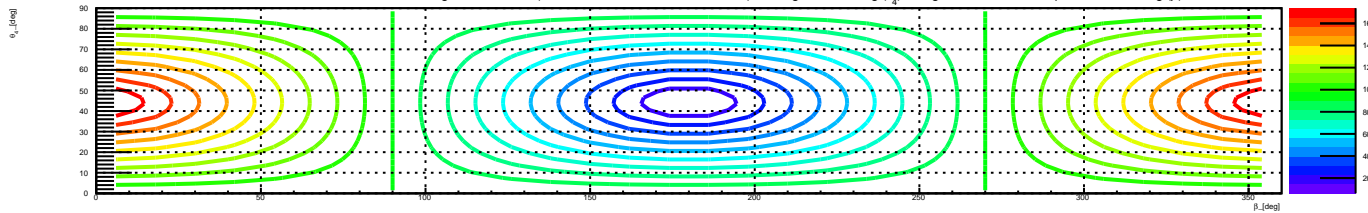




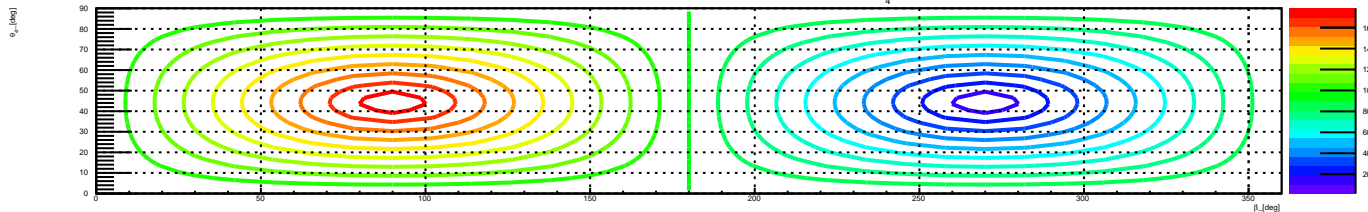
ARGON - Angolo ( $\theta_s$ ) di rinculo FISICO (ripetito a Z) VS angolo scattering ( $\theta_s$ ) e angolo di rotazione del piano di scattering ( $\beta$ )



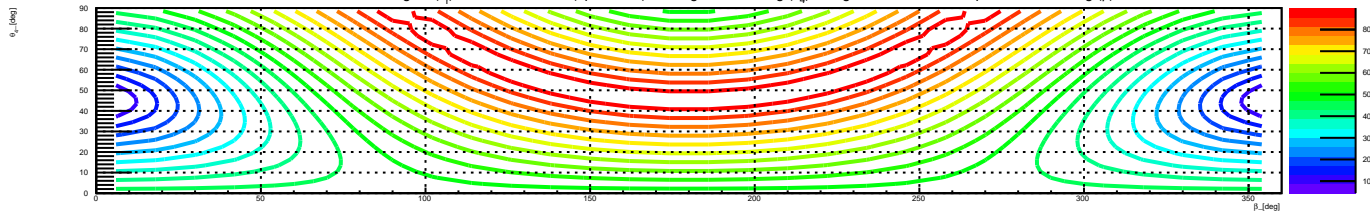
$\alpha = 00$  - NEUTRONE SCATTERATO - Angolo di ZENITH (QUINDI ZENITH SCINTILLATORE) VS angolo scattering ( $\theta_s$ ) e angolo di rotazione del piano di scattering ( $\beta$ )



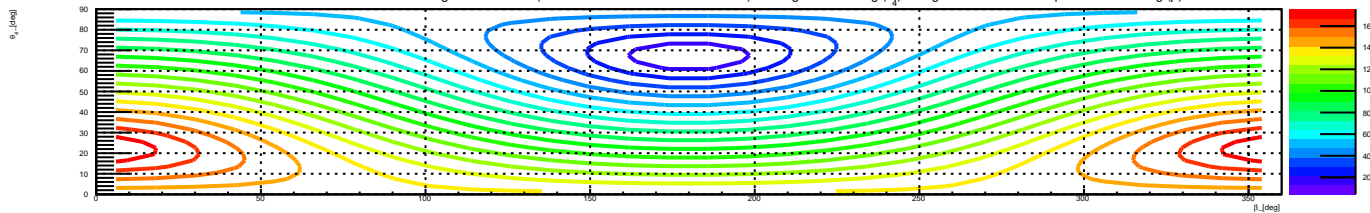
$\alpha = 00$  - NEUTRONE SCATTERATO - Angolo di AZIMUTH (QUINDI AZIMUTH SCINTILLATORE) VS angolo scattering ( $\theta_s$ ) e angolo di rotazione del piano di scattering ( $\beta$ )



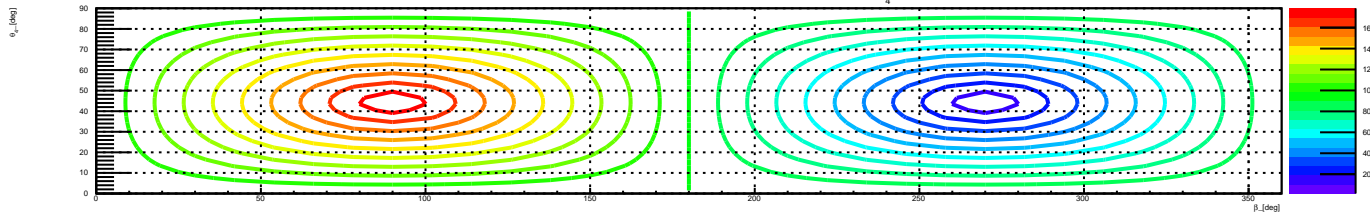
$\alpha = 45$  - ARGON - Angolo ( $\theta_4$ ) di rinculo FISICO (ripetito a Z) VS angolo scattering ( $\theta_4$ ) e angolo di rotazione del piano di scattering ( $\beta$ )



$\alpha = 45$  - NEUTRONE SCATTERATO - Angolo di ZENITH (QUINDI ZENITH SCINTILLATORE) VS angolo scattering ( $\theta_4$ ) e angolo di rotazione del piano di scattering ( $\beta$ )



$\alpha = 45$  - NEUTRONE SCATTERATO - Angolo di AZIMUTH (QUINDI AZIMUTH SCINTILLATORE) VS angolo scattering ( $\theta_4$ ) e angolo di rotazione del piano di scattering ( $\beta$ )





$\alpha = 45$  - Posizione Y SCINTILLATORE rispetto al centro della TPC - CARTESIANE DESTROSE - assi: Z (asse TPC)

90	74.2	74.1	73.7	73.3	72.7	72.1	71.4	70.6	69.9	69.1	68.5	67.9	67.5	67.2	67.0	67.0	67.2	67.5	67.9	68.5	69.1	69.9	70.6	71.4	72.1	72.7	73.3	73.7	74.1	74.2
	80.6	80.1	79.2	77.9	76.2	74.3	72.1	69.9	67.6	65.5	63.5	61.9	60.5	59.6	59.1	59.1	59.6	60.5	61.9	63.5	65.5	67.6	69.9	72.1	74.3	76.2	77.9	79.2	80.1	80.6
80	86.2	85.4	83.9	81.7	78.9	75.7	72.1	68.4	64.7	61.1	57.9	55.1	52.9	51.4	50.6	50.6	51.4	52.9	55.1	57.9	61.1	64.7	68.4	72.1	75.7	78.9	81.7	83.9	85.4	86.2
	90.9	89.8	87.7	84.6	80.8	76.3	71.4	66.2	61.1	56.2	51.7	47.8	44.8	42.7	41.6	41.6	42.7	44.8	47.8	51.7	56.2	61.1	66.2	71.4	76.3	80.8	84.6	87.7	89.8	90.9
70	94.6	93.2	90.5	86.7	81.8	76.1	69.9	63.4	56.8	50.6	44.9	40.0	36.2	33.5	32.1	32.1	33.5	36.2	40.0	44.9	50.6	56.8	63.4	69.9	76.1	81.8	86.7	90.5	93.2	94.6
	97.3	95.7	92.5	87.8	82.0	75.2	67.7	59.8	52.0	44.5	37.6	31.8	27.1	23.9	22.3	22.3	23.9	27.1	31.8	37.6	44.5	52.0	59.8	67.7	75.2	82.0	87.8	92.5	95.7	97.3
60	99.0	97.1	93.4	88.1	81.3	73.4	64.7	55.6	46.6	37.9	30.0	23.2	17.8	14.1	12.2	12.2	14.1	17.8	23.2	30.0	37.9	46.6	55.6	64.7	73.4	81.3	88.1	93.4	97.1	99.0
	99.7	97.6	93.4	87.4	79.7	70.8	61.1	50.9	40.6	30.9	22.0	14.4	8.3	4.1	2.0	2.0	4.1	8.3	14.4	22.0	30.9	40.6	50.9	61.1	70.8	79.7	87.4	93.4	97.6	99.7
50	99.3	97.0	92.4	85.7	77.3	67.5	56.8	45.5	34.3	23.5	13.7	5.3	-1.3	-5.9	-8.3	-8.3	-5.9	-1.3	5.3	13.7	23.5	34.3	45.5	56.8	67.5	77.3	85.7	92.4	97.0	99.3
	97.9	95.4	90.4	83.2	74.1	63.5	51.9	39.7	27.6	15.9	5.3	-3.7	-10.9	-15.9	-18.4	-18.4	-15.9	-10.9	-3.7	5.3	15.9	27.6	39.7	51.9	63.5	74.1	83.2	90.4	95.4	97.9
40	95.4	92.7	87.4	79.8	70.1	58.8	46.4	33.5	20.5	8.1	-3.1	-12.8	-20.5	-25.8	-28.5	-28.5	-25.8	-20.5	-12.8	-3.1	8.1	20.5	33.5	46.4	58.8	70.1	79.8	87.4	92.7	95.4
	91.9	89.1	83.5	75.5	65.3	53.5	40.5	26.9	13.3	0.3	-11.6	-21.7	-29.8	-35.3	-38.2	-38.2	-35.3	-29.8	-21.7	-11.6	0.3	13.3	26.9	40.5	53.5	65.3	75.5	83.5	89.1	91.9
30	87.4	84.5	78.7	70.4	59.8	47.5	34.0	19.9	5.8	-7.7	-19.9	-30.5	-38.8	-44.6	-47.5	-47.5	-44.6	-38.8	-30.5	-19.9	-7.7	5.8	19.9	34.0	47.5	59.8	70.4	78.7	84.5	87.4
	81.9	78.9	73.0	64.5	53.7	41.1	27.2	12.8	-1.7	-15.5	-28.1	-38.9	-47.5	-53.4	-56.4	-56.4	-53.4	-47.5	-38.9	-28.1	-15.5	-1.7	12.8	27.2	41.1	53.7	64.5	73.0	78.9	81.9
20	75.6	72.5	66.5	57.9	46.9	34.1	20.1	5.5	-9.2	-23.2	-36.0	-46.9	-55.6	-61.6	-64.7	-64.7	-61.6	-55.6	-46.9	-36.0	-23.2	-9.2	5.5	20.1	34.1	46.9	57.9	66.5	72.5	75.6
	68.4	65.3	59.3	50.6	39.6	26.8	12.8	-1.9	-16.6	-30.7	-43.5	-54.5	-63.1	-69.2	-72.2	-72.2	-69.2	-63.1	-54.5	-43.5	-30.7	-16.6	-1.9	12.8	26.8	39.6	50.6	59.3	65.3	68.4
10	60.4	57.3	51.4	42.8	31.9	19.2	5.2	-9.3	-23.9	-37.8	-50.5	-61.4	-70.0	-76.0	-79.0	-79.0	-76.0	-70.0	-61.4	-50.5	-37.8	-23.9	-9.3	5.2	19.2	31.9	42.8	51.4	57.3	60.4
	51.7	48.7	42.9	34.4	23.8	11.3	-2.3	-16.6	-30.9	-44.6	-57.0	-67.7	-76.2	-82.0	-85.0	-85.0	-82.0	-76.2	-67.7	-57.0	-44.6	-30.9	-16.6	-2.3	11.3	23.8	34.4	42.9	48.7	51.7
0	42.4	39.6	33.9	25.7	15.4	3.3	-9.9	-23.8	-37.6	-50.9	-62.9	-73.3	-81.4	-87.1	-90.0	-90.0	-87.1	-81.4	-73.3	-62.9	-50.9	-37.6	-23.8	-9.9	3.3	15.4	25.7	33.9	39.6	42.4
	32.7	29.9	24.5	16.7	6.8	-4.8	-17.4	-30.7	-43.9	-56.6	-68.1	-78.0	-85.8	-91.3	-94.0	-94.0	-91.3	-85.8	-78.0	-68.1	-56.6	-43.9	-30.7	-17.4	-4.8	6.8	16.7	24.5	29.9	32.7
90	22.5	19.9	14.8	7.4	-1.9	-12.8	-24.7	-37.2	-49.7	-61.7	-72.6	-81.9	-89.3	-94.4	-97.0	-97.0	-94.4	-89.3	-81.9	-72.6	-61.7	-49.7	-37.2	-24.7	-12.8	-1.9	7.4	14.8	19.9	22.5
	12.1	9.7	4.9	-1.9	-10.6	-20.7	-31.8	-43.4	-55.0	-66.1	-76.2	-84.9	-91.7	-96.5	-98.9	-98.9	-96.5	-91.7	-84.9	-76.2	-66.1	-55.0	-43.4	-31.8	-20.7	-10.6	-1.9	4.9	9.7	12.1
80	1.5	-0.7	-5.0	-11.3	-19.2	-28.4	-38.5	-49.1	-59.7	-69.8	-79.0	-86.9	-93.2	-97.5	-99.7	-99.7	-97.5	-93.2	-86.9	-79.0	-69.8	-59.7	-49.1	-38.5	-28.4	-19.2	-11.3	-5.0	-0.7	1.5
	-9.1	-11.1	-14.9	-20.5	-27.6	-35.8	-44.8	-54.2	-63.7	-72.7	-80.9	-88.0	-93.5	-97.4	-99.4	-99.4	-97.4	-93.5	-88.0	-80.9	-72.7	-63.7	-54.2	-44.8	-35.8	-27.6	-20.5	-14.9	-11.1	-9.1
70	-19.6	-21.4	-24.7	-29.5	-35.6	-42.8	-50.6	-58.8	-66.9	-74.8	-81.9	-88.0	-92.8	-96.2	-97.9	-97.9	-96.2	-92.8	-88.0	-81.9	-74.8	-66.9	-58.8	-50.6	-42.8	-35.6	-29.5	-24.7	-21.4	-19.6
	-30.0	-31.4	-34.2	-38.2	-43.3	-49.3	-55.8	-62.6	-69.5	-76.0	-81.9	-87.0	-91.1	-93.9	-95.3	-95.3	-93.9	-91.1	-87.0	-81.9	-76.0	-69.5	-62.6	-55.8	-49.3	-43.3	-38.2	-34.2	-31.4	-30.0
60	-40.0	-41.1	-43.3	-46.5	-50.5	-55.2	-60.4	-65.8	-71.2	-76.3	-81.0	-85.1	-88.2	-90.5	-91.6	-91.6	-90.5	-88.2	-85.1	-81.0	-76.3	-71.2	-65.8	-60.4	-55.2	-50.5	-46.5	-43.3	-41.1	-40.0
	-49.5	-50.3	-51.9	-54.2	-57.2	-60.6	-64.3	-68.2	-72.1	-75.8	-79.2	-82.1	-84.4	-86.0	-86.8	-86.8	-86.0	-84.4	-82.1	-79.2	-75.8	-72.1	-68.2	-64.3	-60.6	-57.2	-54.2	-51.9	-50.3	-49.5
50	-58.5	-59.0	-60.0	-61.4	-63.1	-65.2	-67.4	-69.8	-72.2	-74.4	-76.5	-78.2	-79.6	-80.6	-81.1	-81.1	-80.6	-79.6	-78.2	-76.5	-74.4	-72.2	-69.8	-67.4	-65.2	-63.1	-61.4	-60.0	-59.0	-58.5
	-66.8	-67.0	-67.3	-67.8	-68.4	-69.1	-69.8	-70.6	-71.4	-72.2	-72.8	-73.4	-73.9	-74.2	-74.4	-74.4	-74.2	-73.9	-73.4	-72.8	-72.2	-71.4	-70.6	-69.8	-69.1	-68.4	-67.8	-67.3	-67.0	-66.8

$\alpha = 45$  - Posizione Z SCINTILLATORE rispetto al centro della TPC - CARTESIANE DESTROSE - assi: Z (asse TPC)

90	67.0	67.2	67.5	67.9	68.5	69.1	69.9	70.6	71.4	72.1	72.7	73.3	73.7	74.1	74.2	74.2	74.1	73.7	73.3	72.7	72.1	71.4	70.6	69.9	69.1	68.5	67.9	67.5	67.2	67.0
	59.1	59.6	60.5	61.9	63.5	65.5	67.6	69.9	72.1	74.3	76.2	77.9	79.2	80.1	80.6	80.6	80.1	79.2	77.9	76.2	74.3	72.1	69.9	67.6	65.5	63.5	61.9	60.5	59.6	59.1
80	50.6	51.4	52.9	55.1	57.9	61.1	64.7	68.4	72.1	75.7	78.9	81.7	83.9	85.4	86.2	86.2	85.4	83.9	81.7	78.9	75.7	72.1	68.4	64.7	61.1	57.9	55.1	52.9	51.4	50.6
	41.6	42.7	44.8	47.8	51.7	56.2	61.1	66.2	71.4	76.3	80.8	84.6	87.7	89.8	90.9	90.9	89.8	87.7	84.6	80.8	76.3	71.4	66.2	61.1	56.2	51.7	47.8	44.8	42.7	41.6
70	32.1	33.5	36.2	40.0	44.9	50.6	56.8	63.4	69.9	76.1	81.8	86.7	90.5	93.2	94.6	94.6	93.2	90.5	86.7	81.8	76.1	69.9	63.4	56.8	50.6	44.9	40.0	36.2	33.5	32.1
	22.3	23.9	27.1	31.8	37.6	44.5	52.0	59.8	67.7	75.2	82.0	87.8	92.5	95.7	97.3	97.3	95.7	92.5	87.8	82.0	75.2	67.7	59.8	52.0	44.5	37.6	31.8	27.1	23.9	22.3
60	12.2	14.1	17.8	23.2	30.0	37.9	46.6	55.6	64.7	73.4	81.3	88.1	93.4	97.1	99.0	99.0	97.1	93.4	88.1	81.3	73.4	64.7	55.6	46.6	37.9	30.0	23.2	17.8	14.1	12.2
	2.0	4.1	8.3	14.4	22.0	30.9	40.6	50.9	61.1	70.8	79.7	87.4	93.4	97.6	99.7	99.7	97.6	93.4	87.4	79.7	70.8	61.1	50.9	40.6	30.9	22.0	14.4	8.3	4.1	2.0
50	-8.3	-5.9	-1.3	5.3	13.7	23.5	34.3	45.5	56.8	67.5	77.3	85.7	92.4	97.0	99.3	99.3	97.0	92.4	85.7	77.3	67.5	56.8	45.5	34.3	23.5	13.7	5.3	-1.3	-5.9	-8.3
	-18.4	-15.9	-10.9	-3.7	5.3	15.9	27.6	39.7	51.9	63.5	74.1	83.2	90.4	95.4	97.9	97.9	95.4	90.4	83.2	74.1	63.5	51.9	39.7	27.6	15.9	5.3	-3.7	-10.9	-15.9	-18.4
40	-28.5	-25.8	-20.5	-12.8	-3.1	8.1	20.5	33.5	46.4	58.8	70.1	79.8	87.4	92.7	95.4	95.4	92.7	87.4	79.8	70.1	58.8	46.4	33.5	20.5	8.1	-3.1	-12.8	-20.5	-25.8	-28.5
	-38.2	-35.3	-29.8	-21.7	-11.6	0.3	13.3	26.9	40.5	53.5	65.3	75.5	83.5	89.1	91.9	91.9	89.1	83.5	75.5	65.3	53.5	40.5	26.9	13.3	0.3	-11.6	-21.7	-29.8	-35.3	-38.2
30	-47.5	-44.6	-38.8	-30.5	-19.9	-7.7	5.8	19.9	34.0	47.5	59.8	70.4	78.7	84.5	87.4	87.4	84.5	78.7	70.4	59.8	47.5	34.0	19.9	5.8	-7.7	-19.9	-30.5	-38.8	-44.6	-47.5
	-56.4	-53.4	-47.5	-38.9	-28.1	-15.5	-1.7	12.8	27.2	41.1	53.7	64.5	73.0	78.9	81.9	81.9	78.9	73.0	64.5	53.7	41.1	27.2	12.8	-1.7	-15.5	-28.1	-38.9	-47.5	-53.4	-56.4
20	-64.7	-61.6	-55.6	-46.9	-36.0	-23.2	-9.2	5.5	20.1	34.1	46.9	57.9	66.5	72.5	75.6	75.6	72.5	66.5	57.9	46.9	34.1	20.1	5.5	-9.2	-23.2	-36.0	-46.9	-55.6	-61.6	-64.7
	-72.2	-69.2	-63.1	-54.5	-43.5	-30.7	-16.6	-1.9	12.8	26.8	39.6	50.6	59.3	65.3	68.4	68.4	65.3	59.3	50.6	39.6	26.8	12.8	-1.9	-16.6	-30.7	-43.5	-54.5	-63.1	-69.2	-72.2
10	-79.0	-76.0	-70.0	-61.4	-50.5	-37.8	-23.9	-9.3	5.2	19.2	31.9	42.8	51.4	57.3	60.4	60.4	57.3	51.4	42.8	31.9	19.2	5.2	-9.3	-23.9	-37.8	-50.5	-61.4	-70.0	-76.0	-79.0
	-85.0	-82.0	-76.2	-67.7	-57.0	-44.6	-30.9	-16.6	-2.3	11.3	23.8	34.4	42.9	48.7	51.7	51.7	48.7	42.9	34.4	23.8	11.3	-2.3	-16.6	-30.9	-44.6	-57.0	-67.7	-76.2	-82.0	-85.0
0	-90.0	-87.1	-81.4	-73.3	-62.9	-50.9	-37.6	-23.8	-9.9	3.3	15.4	25.7	33.9	39.6	42.4	42.4	39.6	33.9	25.7	15.4	3.3	-9.9	-23.8	-37.6	-50.9	-62.9	-73.3	-81.4	-87.1	-90.0
	-94.0	-91.3	-85.8	-78.0	-68.1	-56.6	-43.9	-30.7	-17.4	-4.8	6.8	16.7	24.5	29.9	32.7	32.7	29.9	24.5	16.7	6.8	-4.8	-17.4	-30.7	-43.9	-56.6	-68.1	-78.0	-85.8	-91.3	-94.0
90	-97.0	-94.4	-89.3	-81.9	-72.6	-61.7	-49.7	-37.2	-24.7	-12.8	-1.9	7.4	14.8	19.9	22.5	22.5	19.9	14.8	7.4	-1.9	-12.8	-24.7	-37.2	-49.7	-61.7	-72.6	-81.9	-89.3	-94.4	-97.0
	-98.9	-96.5	-91.7	-84.9	-76.2	-66.1	-55.0	-43.4	-31.8	-20.7	-10.6	-1.9	4.9	9.7	12.1	12.1	9.7	4.9	-1.9	-10.6	-20.7	-31.8	-43.4	-55.0	-66.1	-76.2	-84.9	-91.7	-96.5	-98.9
80	-99.7	-97.5	-93.2	-86.9	-79.0	-69.8	-59.7	-49.1	-38.5	-28.4	-19.2	-11.3	-5.0	-0.7	1.5	1.5	-0.7	-5.0	-11.3	-19.2	-28.4	-38.5	-49.1	-59.7	-69.8	-79.0	-86.9	-93.2	-97.5	-99.7
	-99.4	-97.4	-93.5	-88.0	-80.9	-72.7	-63.7	-54.2	-44.8	-35.8	-27.6	-20.5	-14.9	-11.1	-9.1	-9.1	-11.1	-14.9	-20.5	-27.6	-35.8	-44.8	-54.2	-63.7	-72.7	-80.9	-88.0	-93.5	-97.4	-99.4
70	-97.9	-96.2	-92.8	-88.0	-81.9	-74.8	-66.9	-58.8	-50.6	-42.8	-35.6	-29.5	-24.7	-21.4	-19.6	-19.6	-21.4	-24.7	-29.5	-35.6	-42.8	-50.6	-58.8	-66.9	-74.8	-81.9	-88.0	-92.8	-96.2	-97.9
	-95.3	-93.9	-91.1	-87.0	-81.9	-76.0	-69.5	-62.6	-55.8	-49.3	-43.3	-38.2	-34.2	-31.4	-30.0	-30.0	-31.4	-34.2	-38.2	-43.3	-49.3	-55.8	-62.6	-69.5	-76.0	-81.9	-87.0	-91.1	-93.9	-95.3
60	-91.6	-90.5	-88.2	-85.1	-81.0	-76.3	-71.2	-65.8	-60.4	-55.2	-50.5	-46.5	-43.3	-41.1	-40.0	-40.0	-41.1	-43.3	-46.5	-50.5	-55.2	-60.4	-65.8	-71.2	-76.3	-81.0	-85.1	-88.2	-90.5	-91.6
	-86.8	-86.0	-84.4	-82.1	-79.2	-75.8	-72.1	-68.2	-64.3	-60.6	-57.2	-54.2	-51.9	-50.3	-49.5	-49.5	-50.3	-51.9	-54.2	-57.2	-60.6	-64.3	-68.2	-72.1	-75.8	-79.2	-82.1	-84.4	-86.0	-86.8
50	-81.1	-80.6	-79.6	-78.2	-76.5	-74.4	-72.2	-69.8	-67.4	-65.2	-63.1	-61.4	-60.0	-59.0	-58.5	-58.5	-59.0	-60.0	-61.4	-63.1	-65.2	-67.4	-69.8	-72.2	-74.4	-76.5	-78.2	-79.6	-80.6	-81.1
	-74.4	-74.2	-73.9	-73.4	-72.8	-72.2	-71.4	-70.6	-69.8	-69.1	-68.4	-67.8	-67.3	-67.0	-66.8	-66.8	-67.0	-67.3	-67.8	-68.4	-69.1	-69.8	-70.6	-71.4	-72.2	-72.8	-73.4	-73.9	-74.2	-74.4