

I dati numerici sulla sorgente sono presi dall'articolo

P. Tomassini *et al.*, "Linear and nonlinear Thomson Scattering for advanced X-ray sources in PLASMONX", IEEE Trans. Plasma Sci., **36**(4), 1782-1789 (2008)

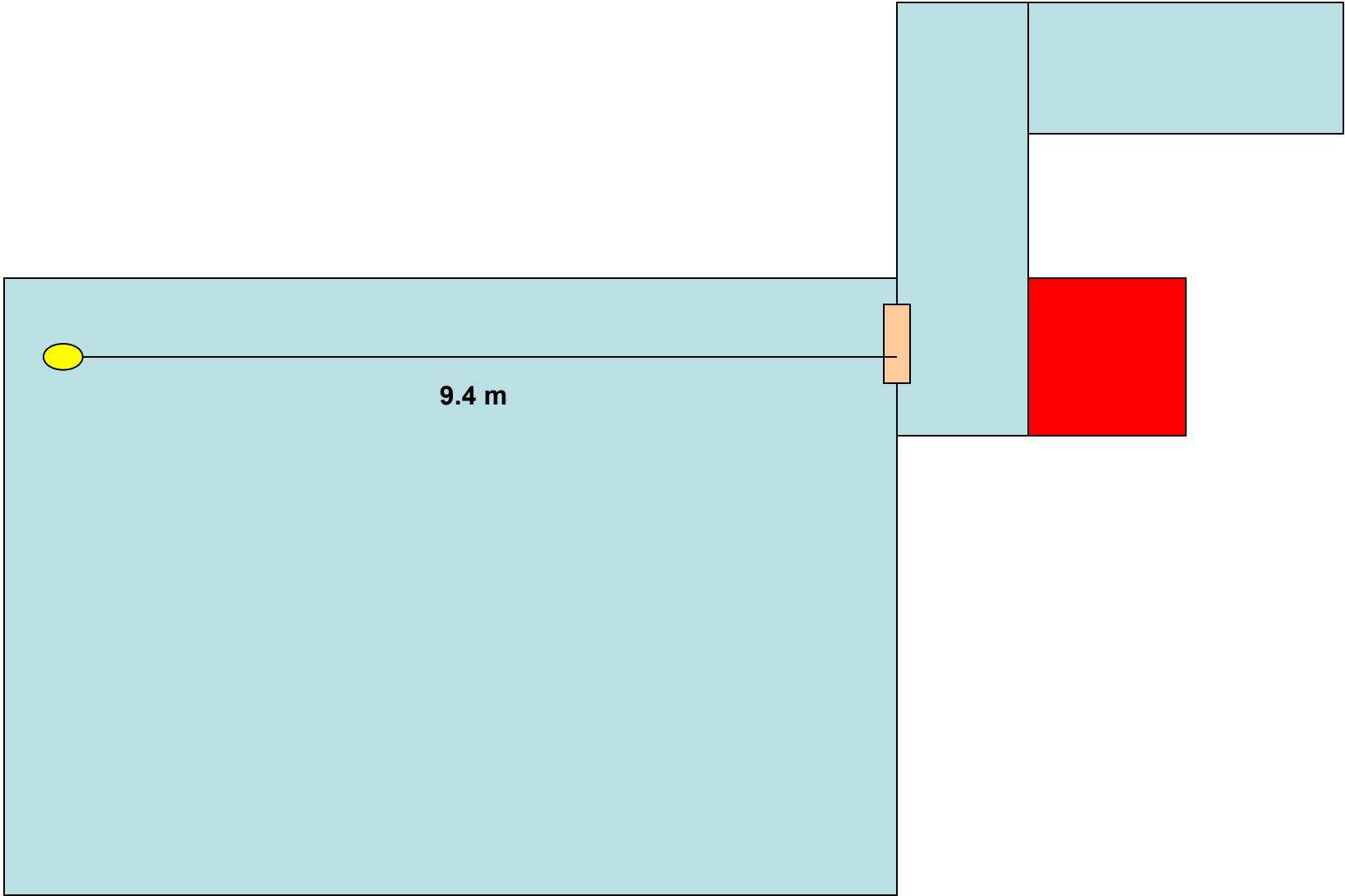
e sono i seguenti:

Divergence ( $\theta / 2$ )	8 mrad
Ntot (@10Hz)	$2 \times 10^{10}$ ph/s
Emean	20 keV
H2/F (no Att)	$2 \times 10^{-2}$
H3/F (no Att)	$8 \times 10^{-4}$

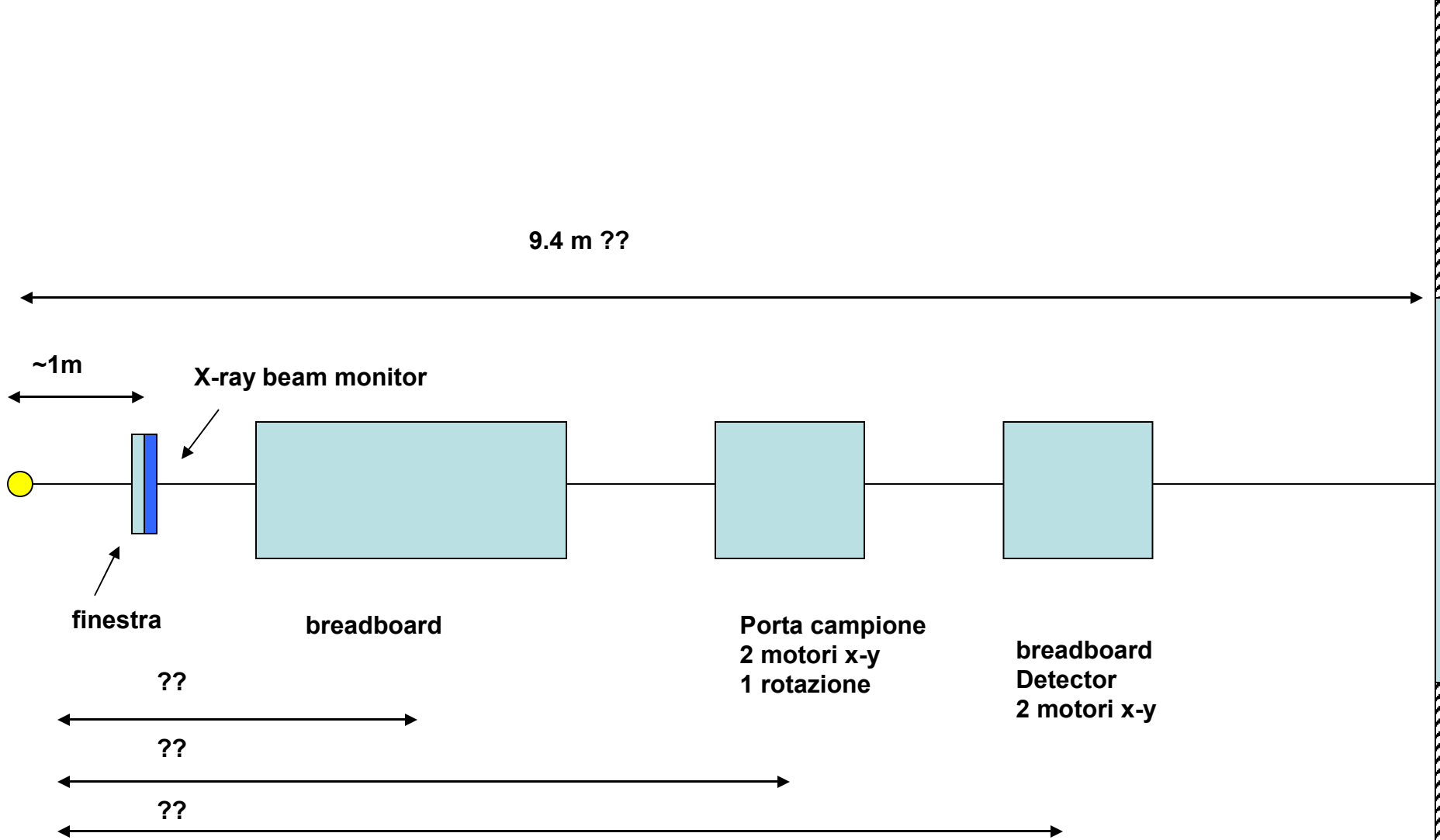
H2 e H3 sono la seconda e terza armonica, F la fondamentale.

Att sta per attenuazione (Dry Air, dati NIST)

Per i conti delle attenuazioni ho supposto che tutti i fotoni fossero a 20 keV per F e a 40 e 60 keV per H2 e H3.



Distance from source (mm)	Diameter (mm)	ph/mm <sup>2</sup>	Transmissi on of F	Tranmission H2	Transmission of H3	ph/mm <sup>2</sup> (Attenuated)	H2/F (Attenuated)	H3/F (Attenuated)
8400	134.4029	1.41E+06	0.45406450	0.7764	0.825044	6.40E+05	3.42E-02	1.45E-03
9400	150.4032	1.13E+06	0.41333122	0.75338	0.806367	4.65E+05	3.65E-02	1.56E-03
15000	240.0051	4.42E+05	0.24417990	0.63643	0.709336	1.08E+05	5.21E-02	2.32E-03



Sistema di allineamento dei tavoli???

Altezza dei tavoli???

Distance from source (mm)	Diameter (mm)	ph/mm <sup>2</sup>	Transmission of F	Transmission H2	Transmission of H3	ph/mm <sup>2</sup> (Attenuated)	H2/F (Attenuated)	H3/F (Attenuated)
4400	70.4015	5.14E+06	0.66129450	0.87585	0.904169	3.40E+06	2.65E-02	1.09E-03
8400	134.4029	1.41E+06	0.45406450	0.7764	0.825044	6.40E+05	3.42E-02	1.45E-03
9400	150.4032	1.13E+06	0.41333122	0.75338	0.806367	4.65E+05	3.65E-02	1.56E-03