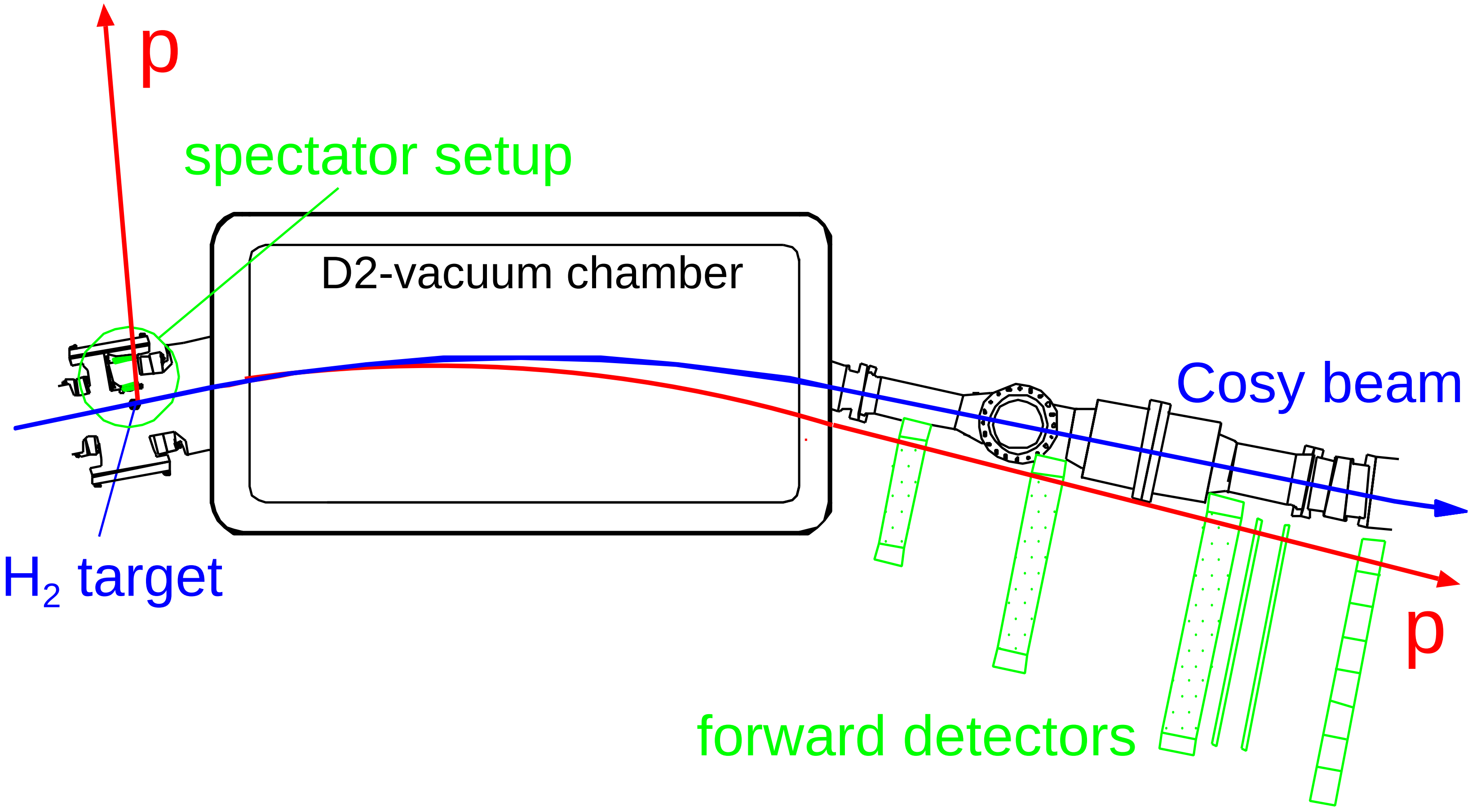
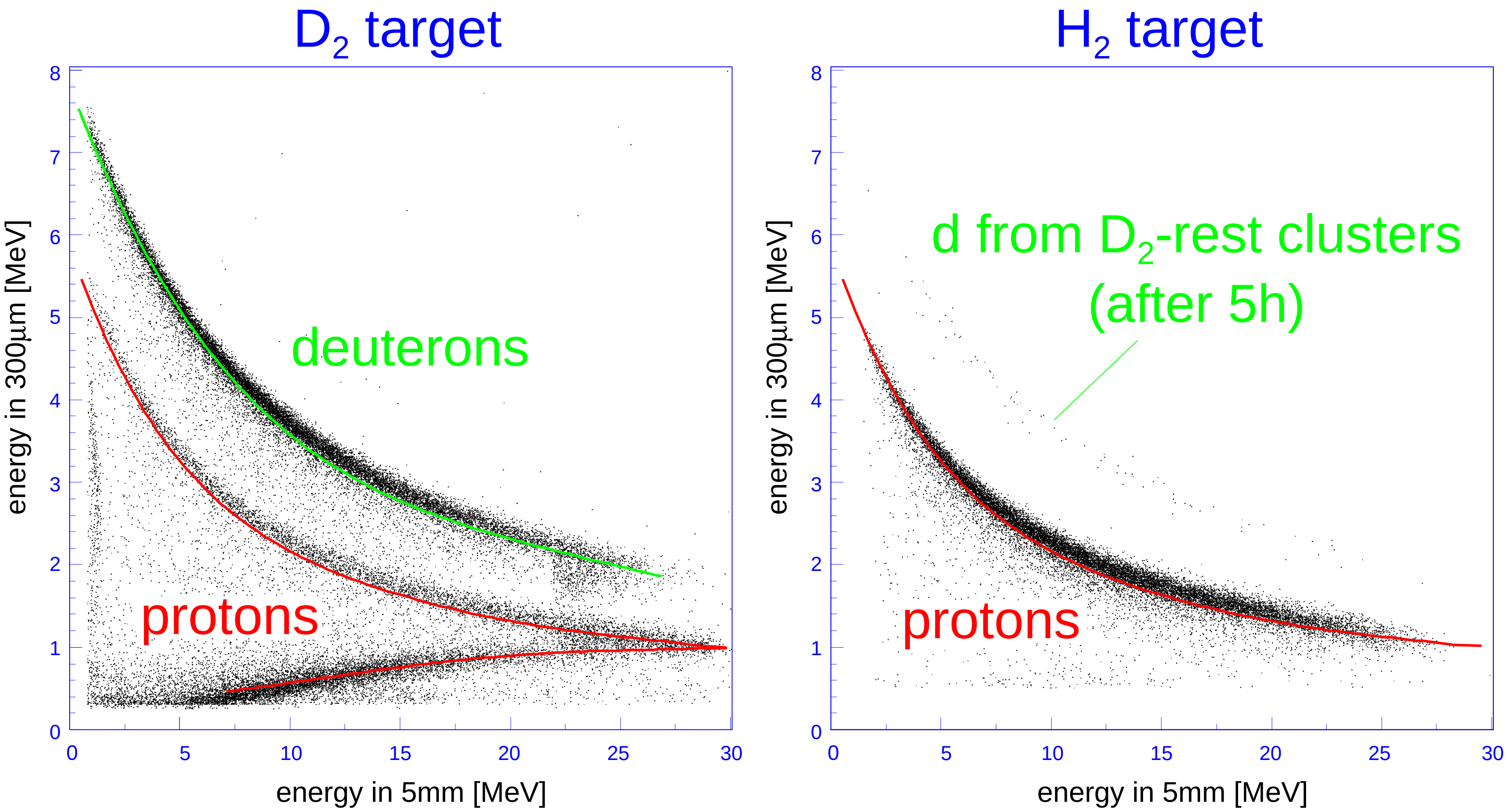
pp-Elastic Scattering at ANKE



- missing mass of the proton in the forward detector
- energy and angle of the proton the spectator detector (small background)

Selection of Elastically Scattered d,p

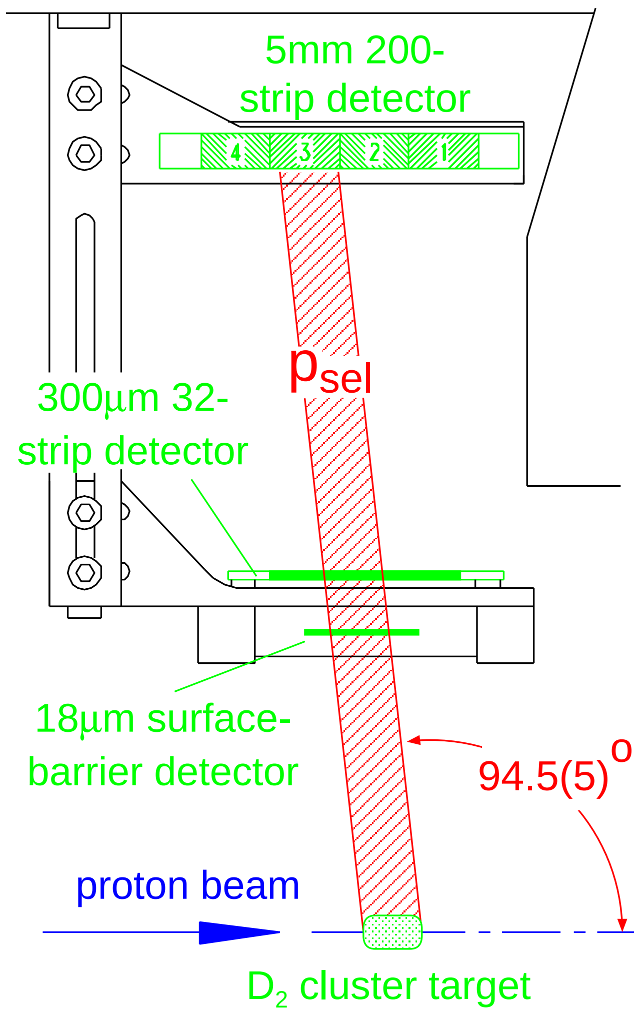


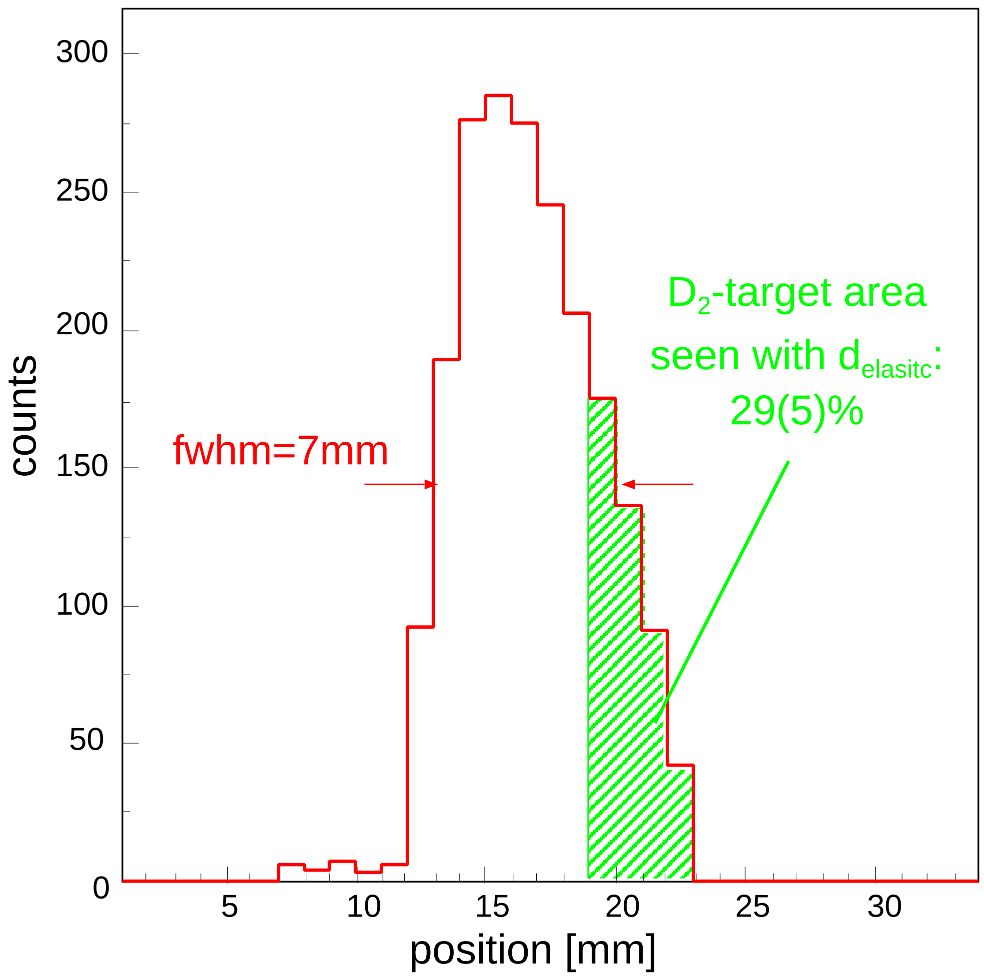
$$\Rightarrow \qquad \mathbf{L} = \mathbf{f}_{\mathbf{target}}^{-1} \cdot \mathbf{0.67(5)} \cdot \mathbf{10^{29}} \frac{\mathbf{1}}{\mathbf{cm^2 s}} \qquad (D_2\text{-target})$$

f_{target}: fraction of the target seen by elastic scattering

Target Dimensions

Selection of protons on a D_2-target under a fixed angle





$\Rightarrow \mathrm{L} = \mathbf{2.4(5)\cdot 10^{29}\frac{1}{cm^2 s}}$ (10^{10} protons at T_p=2 GeV in COSY)