Figure 5  
  
Caption:   
(a) example emission intensity frame of He-I 706.52 nm line captured at

t = 15 ns, the gate time is 500 ps. The four arrows pointing towards the center show

the direction of the emission propagation. The white arrow pointing at the black line

marks an example of a region of interest (ROI), where the integrated signal intensity

value is calculated. The grey lines represent the electrode grid lines. (b) Emission

intensity obtained from ROI for 100 consecutive frames as a function of time. The two

vertical black lines show the point at 15 ns determined from the frame shown in panel

(a). The lifetime τef f = 3.3 ns is calculated from the exponential fit (red line). The

discharge gas contains 1 % nitrogen in helium.  
  
experimental data is marked with exp  
calculated data is marked with cal  
  
Figure 5 a) exp  
x (mm), y (mm), z (Emission / a.u.)  
  
Figure 5 b) cal  
x (ns), y (Integrated intensity/ a.u.),