Figure 6  
  
Caption:   
Normalized spatial-temporal plots of the electron impact excitation rate

from the ground state into He-I (3s)3S1 obtained experimentally for the powered side

(first-row [(a)-(c)]) and the grounded side (second-row [(d)-(f)]) of the twin SDBD

electrode for different admixtures of nitrogen [(a),(d): 10 %, (b),(e): 5 % and (c),(f):

1 %]. The grey dashed lines indicate the edges of the two opposing electrode grid lines.

The Roman numbers with white arrows highlight regions of interest: (I) the point of

discharge ignition, (II) the propagation, (III) the point of extinction, and (IV) a split

in excitation observed only on the grounded side.

experimental data is marked with exp  
  
  
Figure 6 a) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)  
  
  
Figure 6 b) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)

Figure 6 c) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)

Figure 6 d) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)

Figure 6 e) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)

Figure 6 f) exp  
x (time / ns), y (mm), z (Excitation rate / a.u.)