

**Solid Lines**

**Dashed Lines**

$$\bar{I}_{dsb} = 5.78 \times 10^{-2} \text{ hr}^{-1} \text{ (12 hr)}$$

$$\bar{I}_{dsb} = 0.3466 \text{ hr}^{-1} \text{ (2 hr)}$$

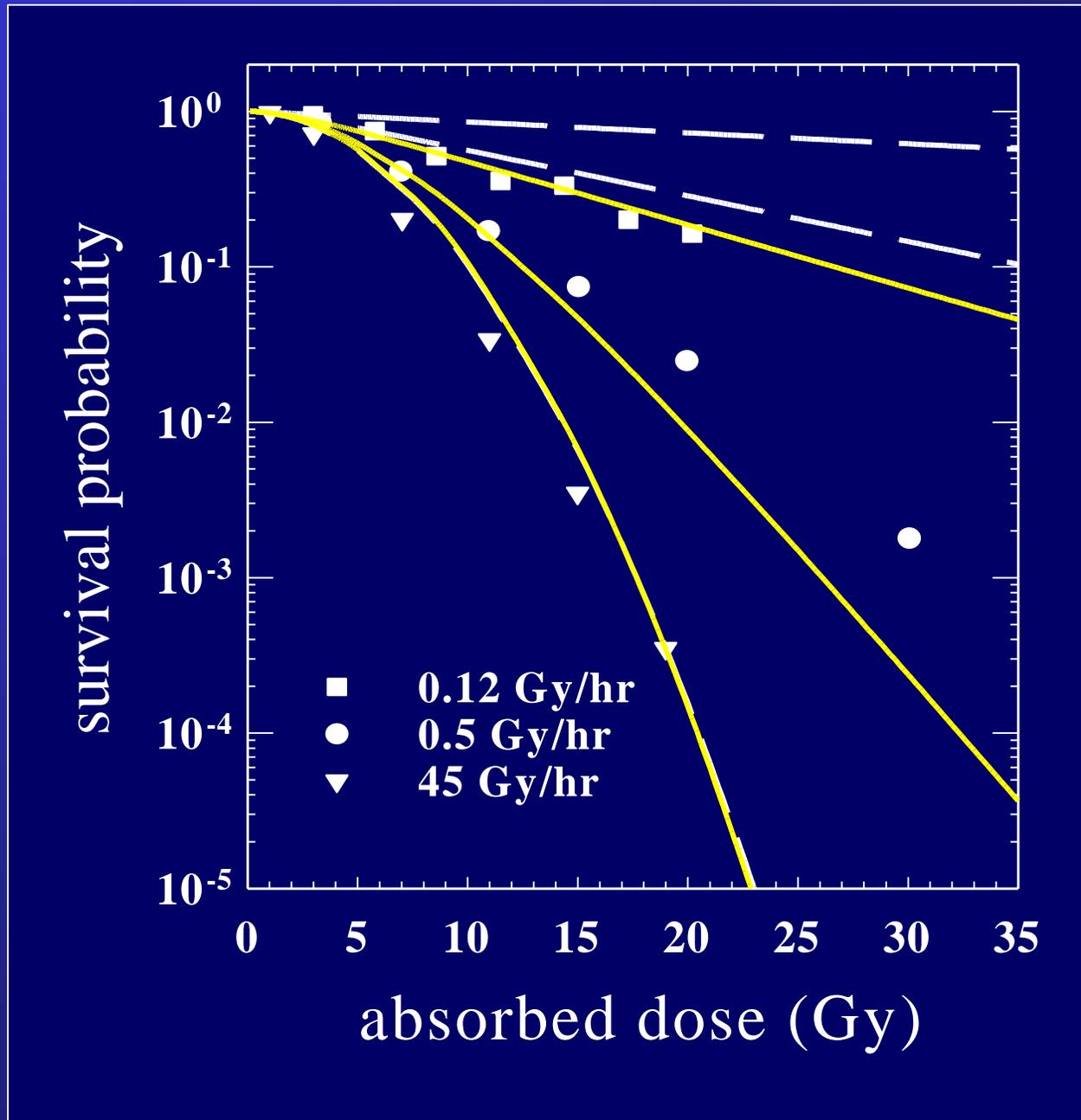


Fig. 1. Results obtained using the simple model without lesion fixation, i.e.,  $\bar{e}_{dsb \rightarrow f} = 0$ .

**Solid Lines**

**Dashed Lines**

$$\bar{I}_{dsb} = 9.90 \times 10^{-2} \text{ hr}^{-1} \text{ (7 hr)}$$

$$\bar{I}_{dsb} = 0.3466 \text{ hr}^{-1} \text{ (2 hr)}$$

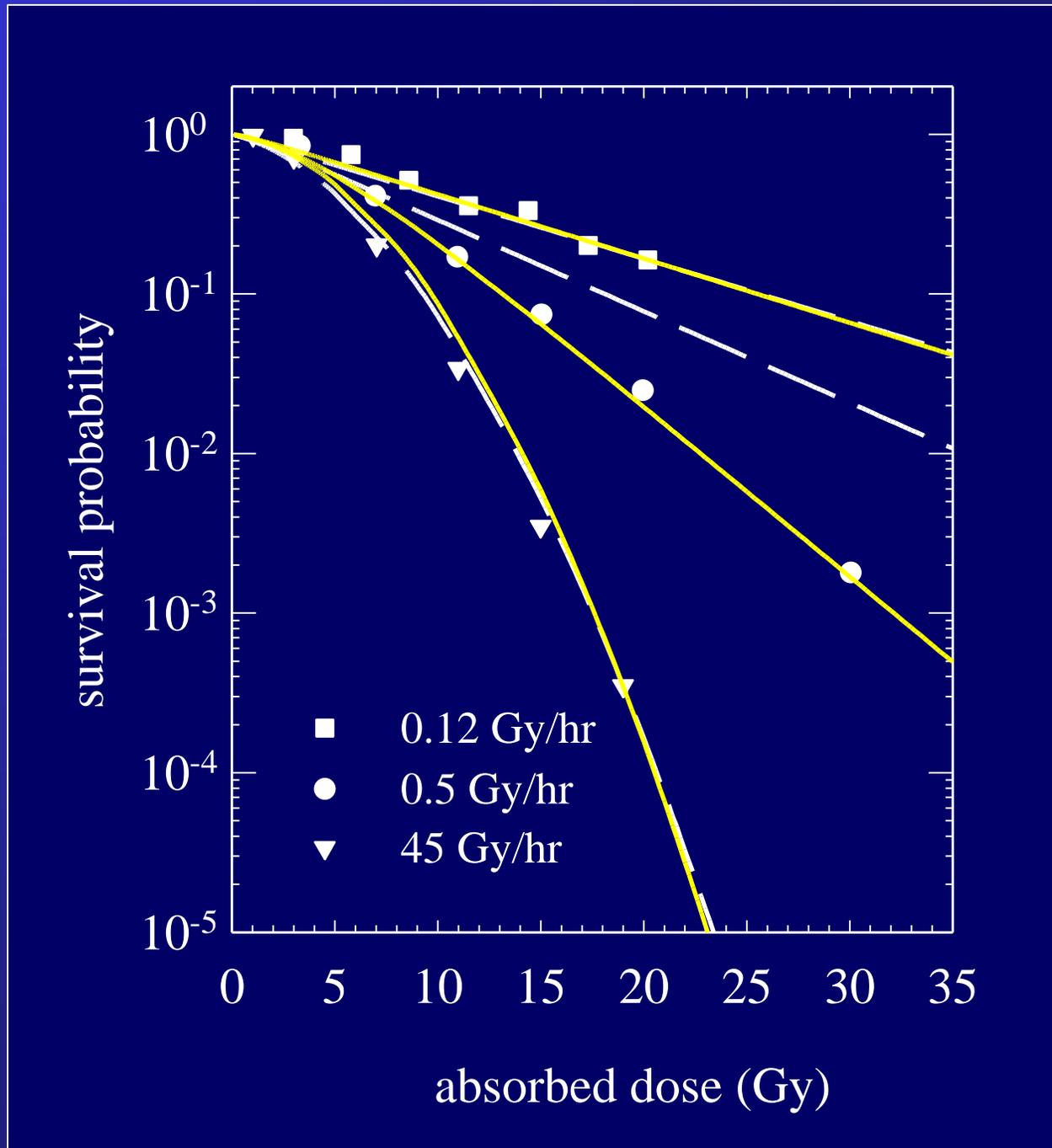


Fig. 2. Results obtained using the simple model with lesion fixation and binary misrepair.

**Solid Lines**  
best estimate parameters

**Dashed Lines**  
 $\bar{e}_{dsb \rightarrow f} = 0$

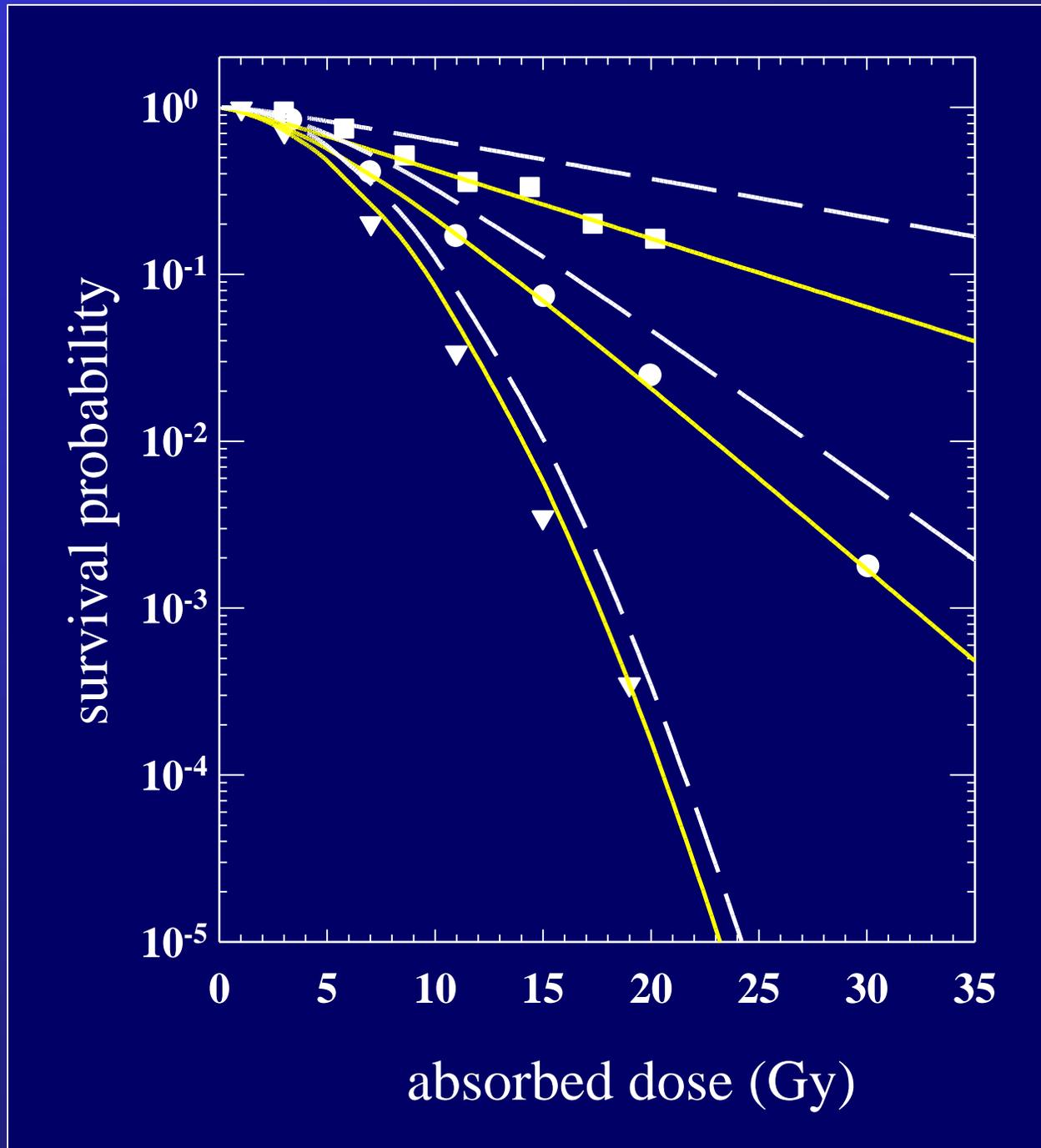


Fig. 3. Relative importance of lesion fixation and binary misrepair interaction processes.