

CMS Simulation

(13.6 TeV)

 $H \rightarrow Z_D Z_D \rightarrow 2\mu + X$, $m_H = 125$ GeV, $m_{Z_D} = 5$ GeV

- | | |
|-----------------------------|-----------------------------|
| — Inclusive | --- $2.4 < l_{xy} < 3.1$ cm |
| $0 < l_{xy} < 11$ cm | --- $3.1 < l_{xy} < 7$ cm |
| - - - $0 < l_{xy} < 0.2$ cm | - - - $7 < l_{xy} < 11$ cm |
| - - - $0.2 < l_{xy} < 1$ cm | - - - $11 < l_{xy} < 16$ cm |
| - - - $1 < l_{xy} < 2.4$ cm | - - - $16 < l_{xy} < 70$ cm |

Acceptance x efficiency

