

CMS *Simulation Preliminary*

(13.6 TeV)

$H \rightarrow Z_D Z_D \rightarrow 2\mu + X$

$m_H = 125$ GeV

$m_{Z_D} = 20$ GeV

— Inclusive

..... $0.0 < l_{xy} < 11.0$ cm

- - - $0.0 < l_{xy} < 0.2$ cm

- - - $0.2 < l_{xy} < 1.0$ cm

- - - $1.0 < l_{xy} < 2.4$ cm

- - - $2.4 < l_{xy} < 3.1$ cm

- - - $3.1 < l_{xy} < 7$ cm

- - - $7.0 < l_{xy} < 11.0$ cm

- - - $11.0 < l_{xy} < 16.0$ cm

- - - $16.0 < l_{xy} < 70.0$ cm

Signal efficiency

