

 $10^{-1}$ 

 $10^{-2}$ 

0.0

2.0

 $\exp(-t/\tau)$ 

 $\exp(-\sqrt{t/\tau})$ 

0.5

Experimental data

1.5

 $\exp(-t/\tau)$ 

 $\exp(-\sqrt{t/\tau})$ 

 $S_2$  (norm.

 $S_1$ 

(norm.)

1.00

0.75

0.50

0.25

0.00

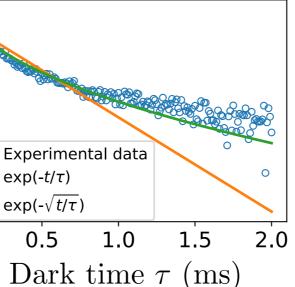
0.0

0.5

Dark time  $\tau$  (ms)

## Low NV density

- Exponential profile
- $T_1 \sim 5 \text{ ms}$





- Stretched exp. profile
- $T_1 \sim 0.5 \text{ ms}$